ORDER NO. EMID0005008C0

A5

Service Manual

Digital Piano

SX-PX552 / SX-PX552M

Colours

(K) .....Black (SX-PX552)

(M) .....Walnut (SX-PX552M)

Areas

(P) U.S.A., Mexico

(PC) Canada

(EX) Norway, Sweden, Denmark, Finland, Switzerland, France, Austria, Spain, Portugal, Holland, Belgium, Italy, Greece, Poland,South Africa

(EZ) Germany

(EB) the United Kingdom

(XD) Hong Kong, Saudi Arabia, Kuwait

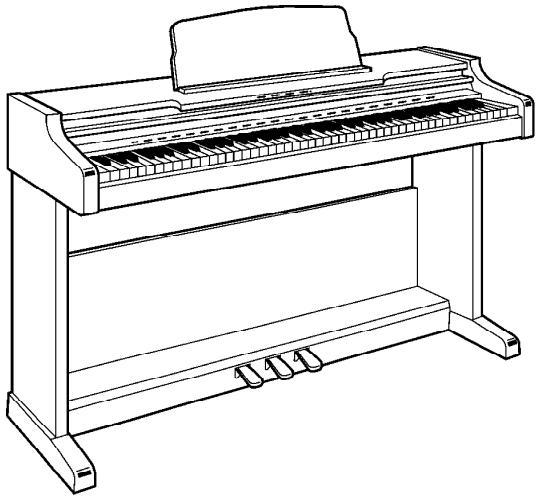
(XC) China

(XT) Taiwan

(XS) Malaysia, Singapore

(X) Thailand, Indnesia, Iran, U.A.E., Panama, Brasil, Philippines, Venezuela, Ecuador, Colombia, Chile

(GN) Australia, New Zealand



SPECIFICATIONS

SPECIFICATIONS

KEYBOARD	88 KEYS
MAX. POLYPHONY	32 NOTES
SOUND	8 SOUNDS : GRAND, UPRIGHT, E PIANO 1, E PIANO 2, HARPSI, VIBES, STRINGS, PIPE ORGAN
PEDAL	SOFT, SOSTENUTO, SUSTAIN
DIGITAL EFFECT	O
BRILLIANCE	MELLOW, BRIGHT (5 STEPS)
DIGITAL REVERB	O (ROOM, STAGE, HALL, CONCERT)
TOUCH SENSITIVITY	LIGHT, NORMAL, HEAVY
TRANSPOSE	G-C-F#
METRONOME	O (TIME SIGNATURE : OFF, 2/4, 3/4, 4/4, 5/4, 6/8)
TUNING	427.3Hz-440.0Hz-453.0Hz
SEQUENCER	TRACK (1,2), STORAGE CAPACITY : APPROX. 4500NOTES, RECORDING MODE : REAL TIME
DISPLAY	O
DEMO	O
MIDI	MULTI TIMBLE, LOCAL CONTROL, OMNI ON, PROGRAM CHANGE, PEDAL, EFFECT, TRANSPOSE
MODE SET	PIANO TUNING, MINIMUM RANGE
OTHERS	POWER SWITCH, MAIN VOLUME, MIDI TERMINALS (IN, OUT), PEDAL IN, AUX IN (R/ R+L, L), LINE OUT (R/ R+L, L), COMPUTER, HEADPHONESx2, AC IN, INITIAL KEY
OUTPUT	80W (40W×2)
SPEAKERS	14cm×2

POWER REQUIREMENT	**110W** **100W (NORTH AMERICA AND MEXICO)** **AC120/ 220/ 230-240V 50/ 60Hz** **AC120V 60Hz (NORTH AMERICA AND MEXICO)** **AC230-240V 50/ 60Hz (EUROPE, AUSTRALIA, AND NEW ZEALAND)**
DIMENSIONES (W×H×D)	**138.7cm×103.2cm×48.5cm (54-19/32”×40-5/8”×19-3/32”)**
NET WEIGHT	**47kg (103.6lbs)**
ACCESSORIES	**AC CORD, MUSIC STAND**

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics

1. WARNING

To prevent the risk of fire, smoke, or electrical shock and to ensure safe operation, please be sure to follow the safety guidelines below.

1. **At places where special caution is required, the necessary safety precautions are clearly labeled or printed, for example, on the cabinet, or on the part concerned. Please follow these safety precautions, and also those listed in the Owner's Manual.**
2. **Parts which have a ⚠ ; mark in the circuit diagram or in the parts list are essential for safety. When replacing these parts, be sure to use only the specified parts.**
3. **Use the specified types for internal wiring (double-insulated wiring, etc.).**
4. **When replacing parts on the AC primary side (power transformer, electric switch, electrical cord, noise-prevention condenser, etc.), wind the lead wire and secure it by soldering.**
5. **Do not let the wiring come into contact with heat-emitting devices (fuse resistor, radiator plate, etc.).**
6. **When replacing the wiring, make sure that it is not in contact with**

the unfinished or rough edge of a part.

7. **When replacing the power cord (except for the plug-in type), tug it from various directions to confirm that it does not slip out of place.**
8. **Spacing**
   If soldering was done on the AC primary circuit, confirm that the interval between the soldered terminals or between the terminal and surrounding metallic parts is at least the minimum required (between the primary circuit and the chassis: at least 6.5 mm; between primary circuit terminals: at least 4.0 mm; between primary circuit terminals and secondary circuit terminals: at least 6.5 mm.).

2. SAFETY PRECAUTION

2.1. Safety Precaution

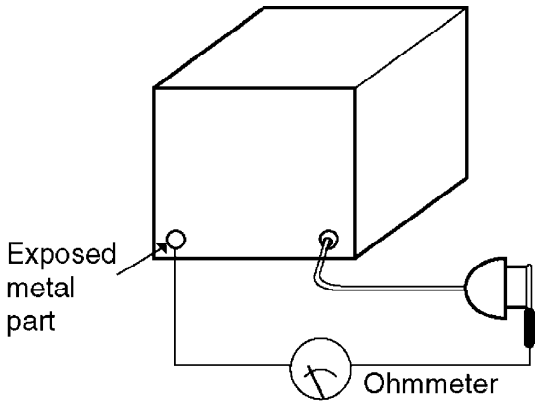
1. **Before servicing, unplug the power cord to prevent an electric shock.**
2. **When replacing parts, use only the manufacturer's recommended components for safety.**
3. **Check the condition of the power cord. Replace if wear or damage is evident.**
4. **After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.**
5. **Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.**

2.2. Insulation Resistance Test

1. **Unplug the power cord and short the prongs of the plug with a jumper wire.**
2. **Turn on the power switch.**
3. **Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screw heads, connectors, control shafts, handle brackets, etc.**

Measurements should range from 4 MOhm to infinity for all exposed parts.

Figure-1



Resistance = 4MΩ to ∞

3. How to Assemble the Piano

4. Arrangement of Control Panel

5. Initial Setting

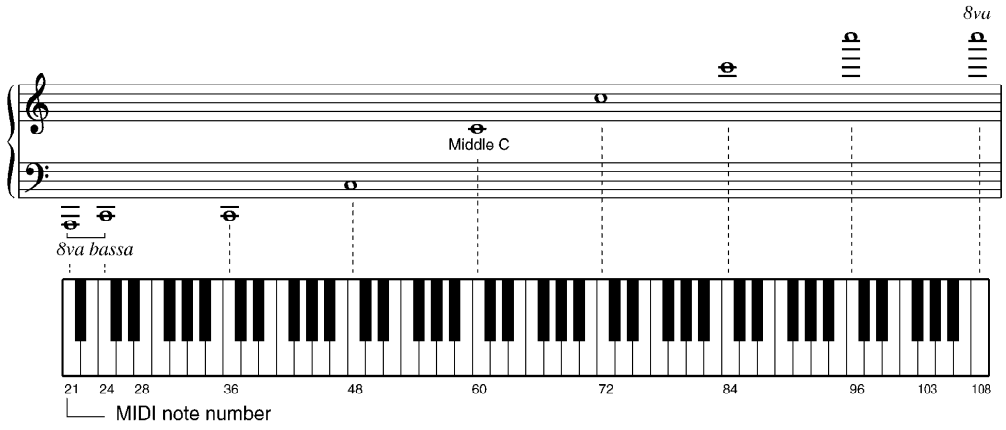
The following procedure resets all programmable settings, functions and memories to their initialized (factory-preset) status.
Use this procedure if the buttons, keys, etc. malfunction, or when you wish to reset the memories and functions.

1. Turn off the POWER button.

2. While pressing the INITIAL key at the same time, turn the POWER button on again.

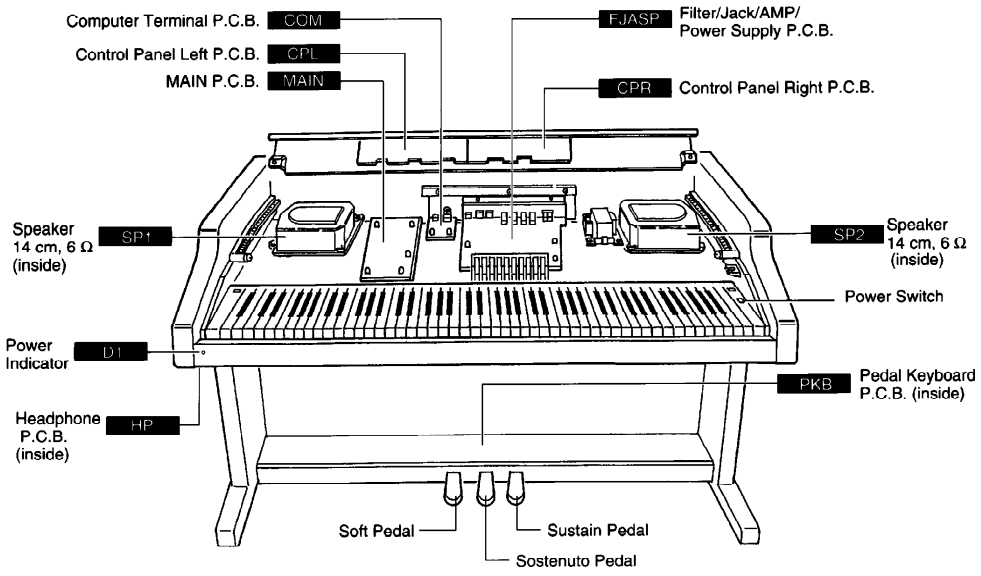
Or, you can press the INITIAL key while the MODE SET button is pressed.

6. Keyboard Ranges and MIDI Note Number



7. Terminals

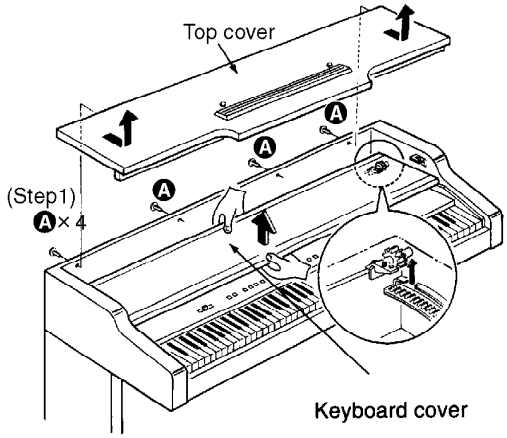
8. Parts Location



9. Disassembly Instructions

9.1. Removing the top cover and the keyboard cover

[Fig. 1]



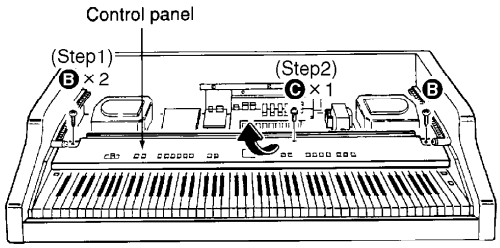
(Step2)
Remove the top cover in the direction of arrows (refer to [Fig. 1]).

(Step3)
Remove the keyboard cover in the direction of arrow (refer to [Fig. 1]).

9.2. Removing the control panel

- Follow the (Step1)-(Step3) of item 9.1.

[Fig. 2]

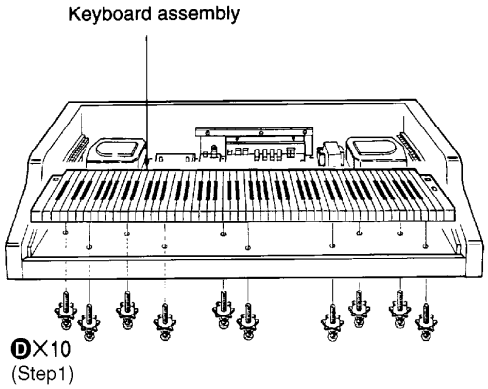


(Step3)
Slide the control panel forward and pull out in the direction of arrow (refer to [Fig. 2]).

9.3. Removing the keyboard assembly

- Follow the (Step1)-(Step3) of item 9.1.
- Follow the (Step1)-(Step3) of item 9.2.

[Fig. 3]



9.4. Disassembly and assembly of key(s)

- Follow the (Step1)-(Step3) of item 9.1.
- Follow the (Step1)-(Step3) of item 9.2.
- Follow the (Step1) of item 9.3.

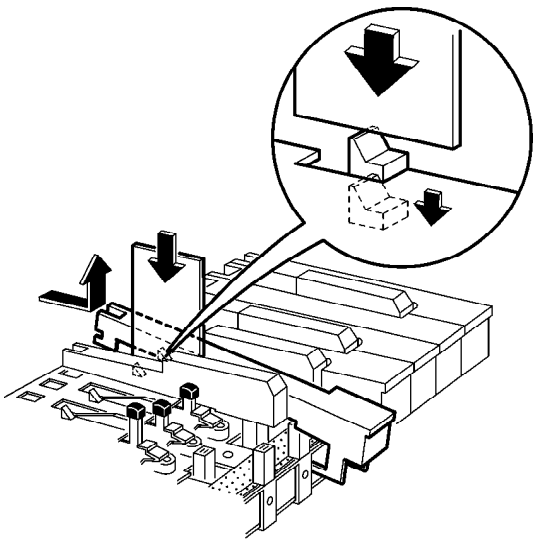
9.4.1. Disassembly

(Step1)
Insert the thin solid board between white key and black key, push the claw (refer to [Fig. 4]).

(Step2)
While pressing slightly the front of the key, push the rear of the key forward to disengage the key claw from the chassis (refer to [Fig. 4]).

(Step3)
Lift the key and remove it.

[Fig. 4]



9.4.2. Assembly

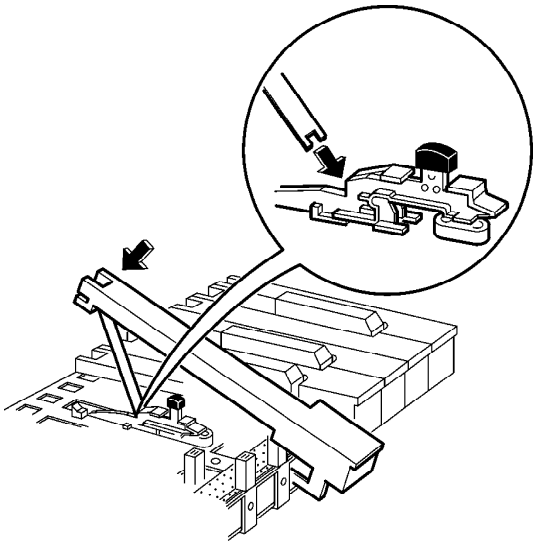
(Step1)
Insert the front part of the key into the chassis.

(Step2)
Insert the plate spring into the hammer notch (refer to [Fig. 5]).

(Step3)
While slowly lowering the key into the chassis, insert the plate spring into the notch at the rear of the key (refer to [Fig. 5]).

(Step4)
Carefully insert the key into the opening in the chassis and slide the key towards the rear to lock it in place (refer to [Fig. 5]).

[Fig. 5]

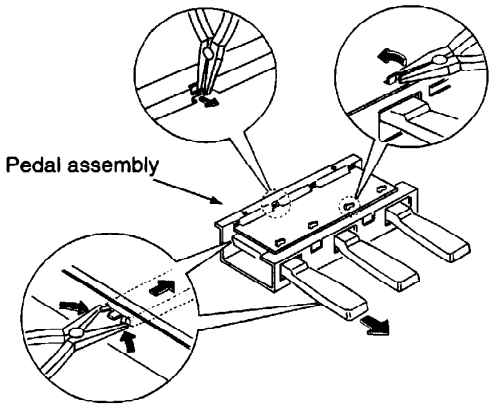


9.5. Disassembly of the pedal assembly

(Step1)
Remove the pedal assembly from the pedal box.

(Step2)
Disassemble the pedal assembly (refer to [Fig. 6]).

[Fig. 6]



9.6. Removing the speakers

- Follow the (Step1)-(Step3) of item 9.1.

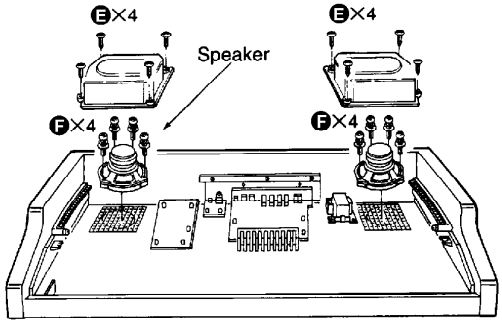
9.6.1. Removing the speaker box

Remove 4 screws Ⓔ (refer to [Fig. 7]).

9.6.2. Removing the speakers

Remove 4 screws Ⓕ (refer to [Fig. 7]).

[Fig. 7]



9.7. Removing the printed circuit boards

- Follow the (Step1)-(Step3) of item 9.1.

- Pull out the connectors on the printed circuit boards.

9.7.1. Removing MAIN, FJASP, COM and HP P.C.B.

- MAIN P.C.B.

(Step1)

Remove the ground wire holding screw Ⓖ (refer to [Fig. 8]).

(Step2)

Release the clows of the 5 P.C.B. holders (refer to Fig. 8).

- FJASP P.C.B.

(Step1)
Remove the 4 screws Ⓗ×2 and Ⓘ×2 (refer to [Fig. 8]).

(Step2)
Release the claws of the 3 P.C.B. holders.

- COM P.C.B.

(Step1)
Remove the screw Ⓙ (refer to [Fig. 8]).

(Step2)
Release the claws of the 2 P.C.B. holders.

- HP P.C.B.

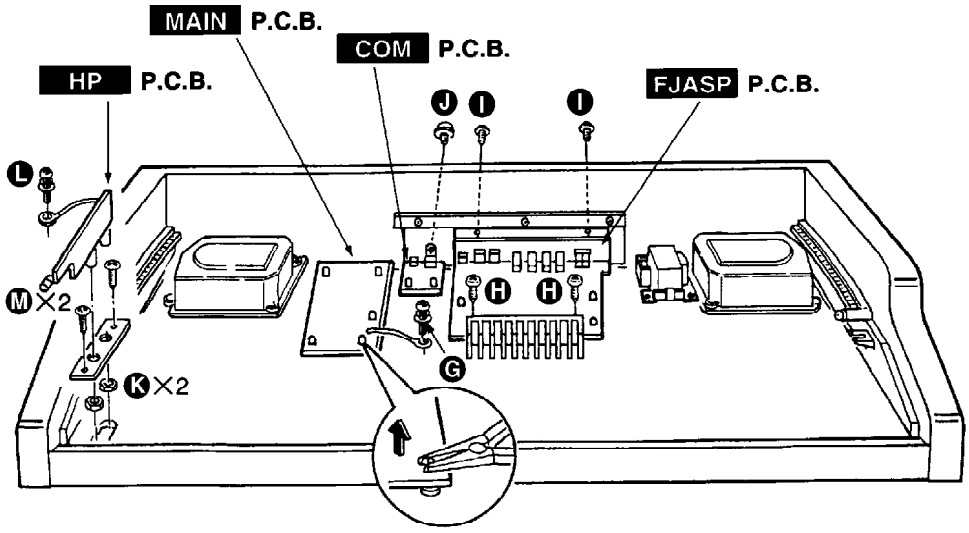
・Follow the item 9.3.

(Step1)
Remove the headphone jack mounting nuts Ⓚ×2 (refer to [Fig. 8]).

(Step2)
Remove the ground wire holding screw Ⓛ (refer to [Fig. 8]).

(Step2)
Remove the HP P.C.B. mounting screws Ⓜ×2 (refer to [Fig. 8]).

[Fig. 8]



9.7.2. Removing CPL and CPR P.C.B.

- Follow the item 9.2.

- CPL P.C.B.

(Step1)

Pull the MAIN VOLUME knob (refer to [Fig. 9]).

(Step2)

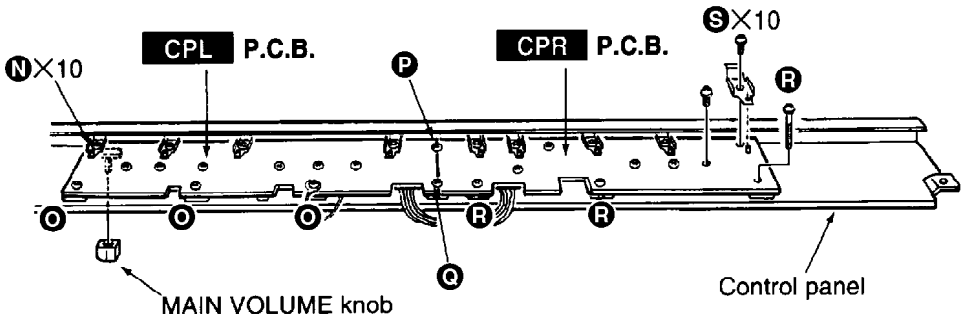
Remove the CPL P.C.B. mounting screws O×3, P×1, Q×1 and N×10 (refer to [Fig. 9]).

- CPR P.C.B.

(Step1)

Remove the CPR P.C.B. mounting screws P×1, Q×1, R×3 and S×10 (refer to [Fig. 9]).

[Fig. 9]



10. Symptoms Which Appear to be Signs of Trouble

The following changes in performance may occur in the Technics Digital Ensemble but do not

indicate trouble.

Phenomenon	Remedy
No sound is produced when the keyboard is played.	**No sound is produced if the MAIN VOLUME is se Use the sliding control to set the volume to an a level. If the MIDI LOCAL CONTROL is set to off, set it t**
Nothing is shown on the display.	**The metronome, SEQUENCER tempo, etc. are in on the display. During normal performance, how display is off.**
Data cannot be exchanged through MIDI terminals.	**The switch for the COMPUTER terminal is not se Turn off the power to this instrument and set the MIDI. Match the channels on the transmitting side and receiving side.**
The sound quavers or is distorted.	**When the COMPUTER terminal or both the MIDI OUT terminals are connected to a computer, dep the computer software the received data may be to the instrument just as it is. Because of this th generated from the keys and the sound generate the returned data are both produced, causing un effects, such as the sounds canceling each othe example. In this case, either change the softwar to prevent received data from being returned, or MIDI LOCAL CONTROL to off.**

■ **About the backup memory**

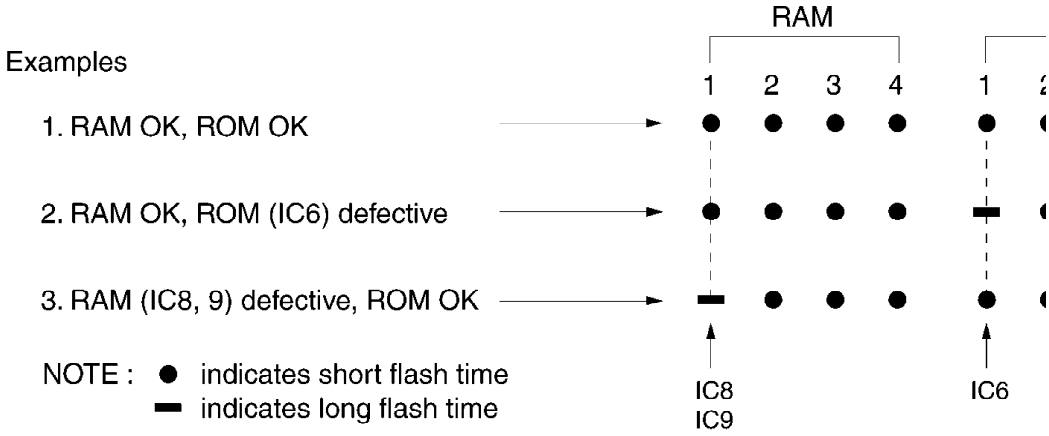
The selected sound and various functions, MIDI settings and SEQUENCER contents remain in the memory for about one week after the POWER is turned off.

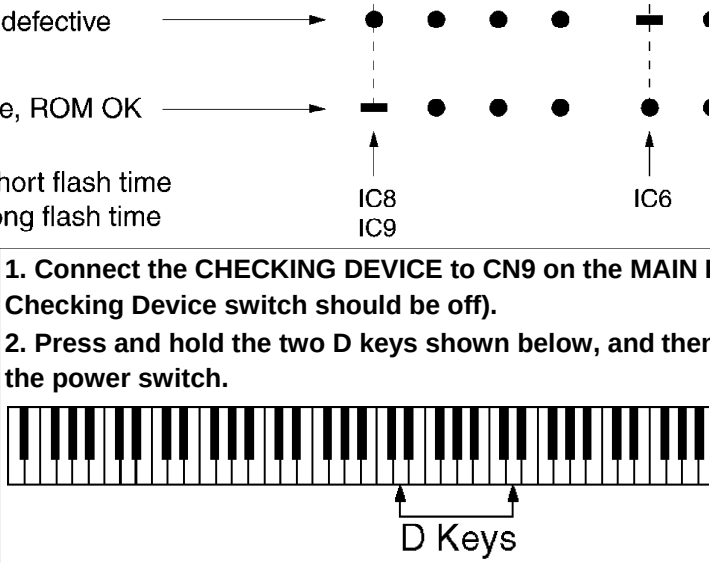
- **The backup memory will not function until the POWER has been on for about 10minutes.**
- **If you wish to return all memories and settings to their initialized status, while pressing the MODE SET button, press the INITIAL key on the keyboard. Or you can turn on the POWER while pressing the INITIAL key.**
- **When the POWER is turned on, the MIDI LOCAL CONTROL is set to on.**
- **If you wish to retain the memory for longer than one week, before one week has elapsed, turn on the power and leave it on for about 10 minutes before turning it off again. The settings will remain in the memory for about one week from this time.**

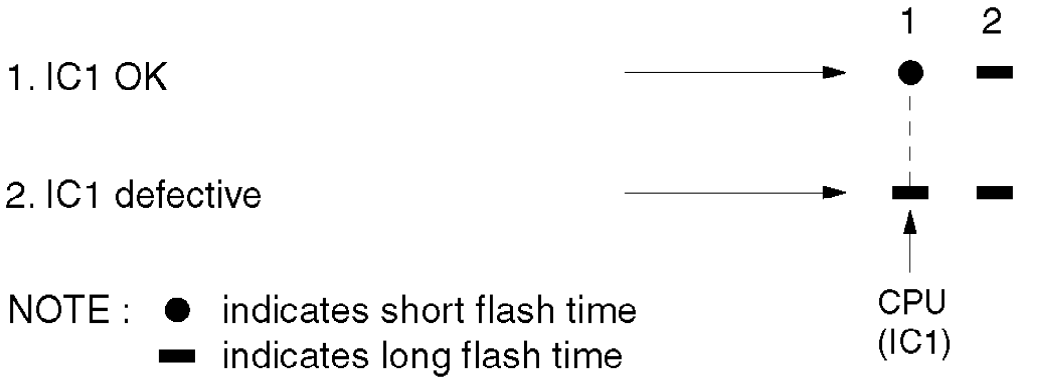
11. About the Self-Diagnostic Function

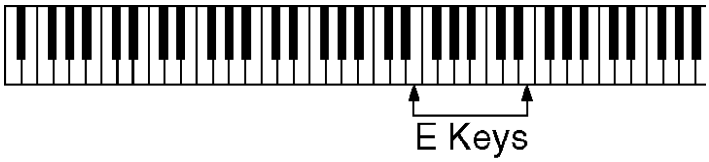
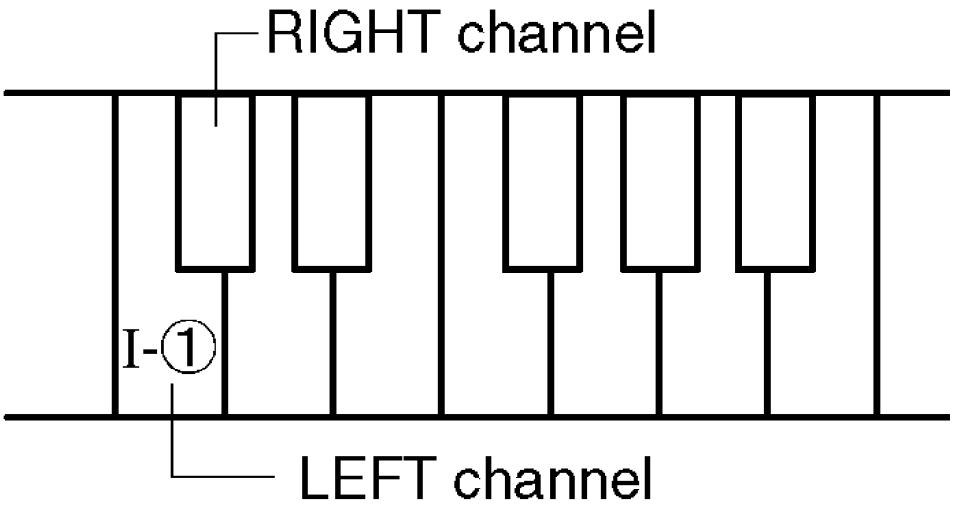
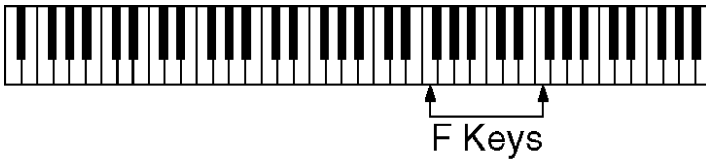
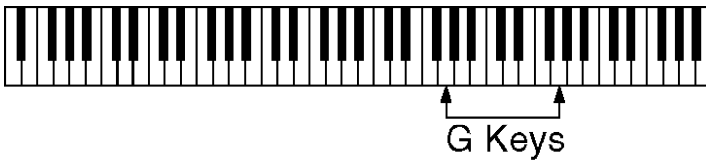
This model has some self-diagnostic capabilities. When set to the self-diagnostic mode, operation of various components can be verified by following the procedures in the chart below.

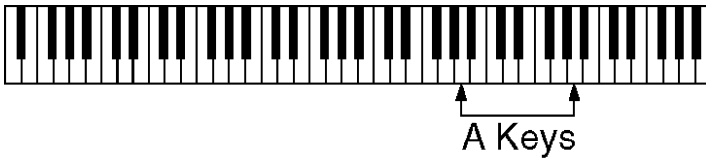
No.	PCB	TEST MODE	Procedure
1	MAIN	RAM (IC8, 9), ROM (IC6) check	1. Connect the CHECKING DEVICE to CN9 on the MAIN I and turn on the CHECKING DEVICE switch. 2. Turn on the power switch.
		When the power switch is turned on, the LED of the CHECKING DEVICE flashes 8 t first 4 flashes are for the RAM check , and the latter 4 flashes are for the ROM chec order of the LED flashes correspond to the respective IC numbers as shown below defective, the corresponding flash time is longer.	
2	CPL	CPU (IC1) check	1. Connect the CHECKING DEVICE to CN9 on the MAIN I Checking Device switch should be off). 2. Press and hold the two D keys shown below, and ther the power switch.
		When the power switch is turned on, the LED of the CHECKING DEVICE flashes 4 t order of the LED flashes corresponds to the CPU (IC) on the respective P.C.B.s as s below. If an IC is defective, the corresponding flash time is longer.	



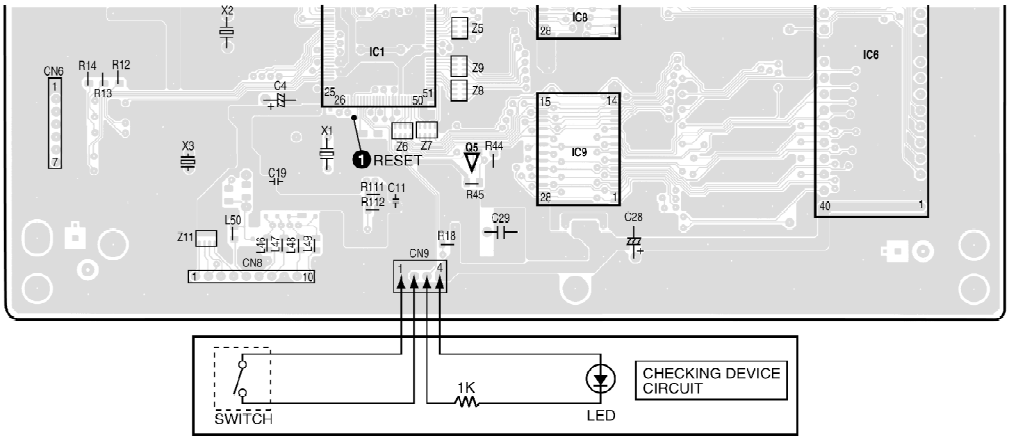




No.	PCB	TEST MODE	Procedure
3	MAIN	Wave ROM check MAIN: IC12	1. Press and hold the two E keys shown below, and ther the power switch. 2. Select the POP GRAND sound. 3. Reduce the MAIN VOLUME level low enough. 
		When set to the self-diagnostic mode, the Wave ROM outputs a sine wave. The Wav correspond to the keyboard keys as shown in the diagram to the right. When a key pressed, the corresponding sine wave sound is produced. If no sound is produced, sound is distorted, the Wave ROM corresponding to that key is defective. This meth allows to diagnose also the output routes (L/R) from the Wave ROM. • The key number indicates the Wave ROM nu (I-① : IC12) 	
4	CPL / CPR	Control Panel buttons LED ligting check	Press and hold the two F keys shown below, and then tu power switch. 
		Press the buttons on the control panel and confirm that the corresponding LEDs lig	
5		Control Panel LED display check	Press and hold the two G keys shown below, and then tu power switch. 
		The numbers are displayed automatically and repieatedly on the display.	

No.	PCB	TEST MODE	Procedure
6	MKB	Keyboard ROM (IC1) check	Press and hold the two A keys shown below, and then tu power switch. 
		If the keyboard ROM (IC1) is OK, the TOUCH SENSITIVITY LIGHT LED only flashes control panel. If it is defective, the LEDs (LIGHT and NORMAL, or LIGHT, NORMAL and HEAVY) fl	

■ **Connection between serving CHECKING DEVICE and MAIN P.C.B.**



12. MIDI Implementation chart

13. PRECAUTIONS BEFORE SERVICING

13.1. Precautions for measuring of the output waveforms

1. **The waveform was measured with a “National Digital Storage Oscilloscope VP-5730A”. Therefore the waveforms of musical tone signals shown may differ somewhat due to the difference in the timing of triggering.**
2. **Since the 1/10 test probe is used, the indicated voltage value on the bottom part of each waveform illustration is 1/10 of the actual value (e.g. 0.2 V/cm should be 2.0 V/cm).**
3. **To measure the waveforms, first set this unit to the service diagnostic mode (refer to “WAVE ROM test”). The WAVE ROM output will then be output as a sine wave to facilitate the servicing check.**

13.2. Important safety notice

- Components identified by a ⚠ mark have special characteristics impotant for safety.
- When replacing any of these components, use only manufacture's specified parts.

13.3. Symbolic Marks

The symbolic marks for resistors and capacitors which used in this circuits are classified as following Table-1 and Table-2.

13.3.1. RESISTORS

- Resistors without symbolic mark are FIXED CARBON FILM RESISTORS (ERD-type).
- All resistors are 1/4 WATT, ±5 % TOLERANCE unless otherwise designated in schematic diagrams.

Table-1

SYMBOL	SPECIFICATION
Ⓕ	Fixed Carbon Film Resistors "FLAME-PROOF" (ERD—F—type)
Ⓕ	Fixed Wire Wound Resistors "FLAME-PROOF" (ERF—type)
Ⓕ	Fixed Metal Oxide Film Resistors "FLAME-PROOF" (ERG—type)
Ⓕ	Fixed Metal Film Resistors "FLAME-PROOF" (ERX—type)
Ⓖ	Fixed Metal Film Resistors (Precision and High Stability) (ERO—type)
F	Fuse Type Fixed Metal Oxide Film Resistors "FLAME-PROOF" (ERQ—type)
F	Fuse Type Fixed Carbon Film Resistors "FLAME-PROOF" (ERD2FC—type)

13.3.2. CAPACITORS

- Capacitors without symbolic mark are POLYESTER CAPACITORS. (ECQM-type, ECQG-type, ±10% Tolerance)
- Polarized capacitors without symbolic mark are Aluminum Electrolytic Capapcitors. (ECEA-type, ±20% Tolerance)

Table-2

SYMBOL	SPECIFICATION	TYPE
N	Non-Polarized Electrolytic Capacitors	ECEA_KN_type
Y	Non-Polarized Electrolytic (for Network system)	ECEA_Y_type
T	Tantalum Solid Electrolytic Capacitors	ECS_type
TF	Metalized Plastic Film Capacitors (TF Series)	ECQV_type
	Temperature Compensating Ceramic Capacitors	ECC_type
	High-Dielecytric Constant Ceramic Capacitors	ECK_type ECR_type
	Axial Lead Ceramic Capacitors	ECB_type
	Metalized Polyester Film Capacitors for Across the Line	ECQ_EW_type
	Aluminum Electrolytic Capacitors for Smoothing Circuit	ECES_type
	Multilayer Ceramic Chip Capacitors	ECUV_type

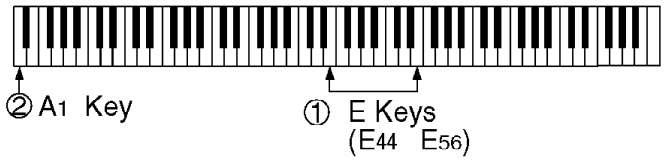
14. Measuring Condition

14.1. Measuring Condition of MAIN P.C.B.

Check point ❷ - ❺

Set to the self-diagnostic mode followings.

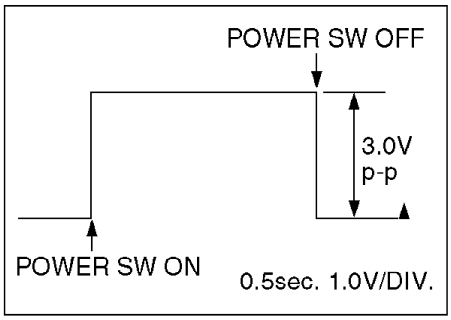
- While pressing two E keys (①) simultaneously,turn on the power switch.
- SOUND ..... CONCERT GRAND
- Main Volume ..... MAX
- Keyboard ..... A_1 (②)



Check point ❶

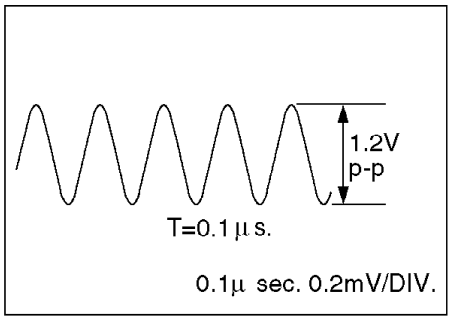
Set the initial setting mode (refer to "5, Initial Setting").

❶ $\overline{\text{RESET}}$

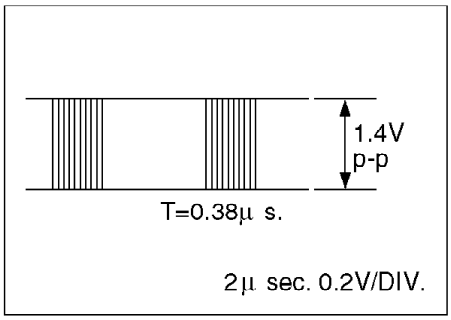


- Power SW..... ON → OFF

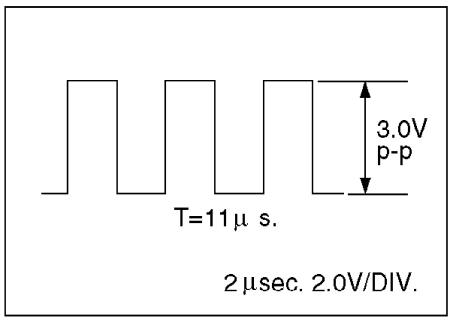
❷ TG CLOCK



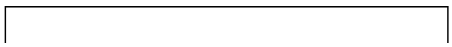
❸

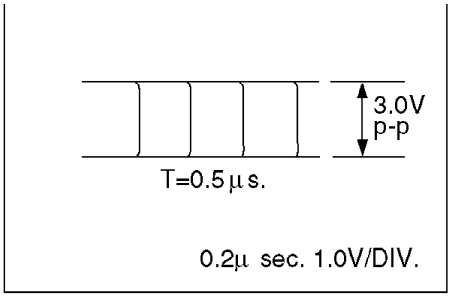


❹



❺



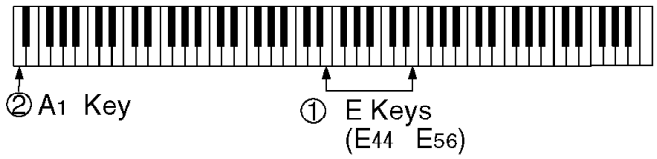


14.2. Measuring Condition of FJASP P.C.B.

Check point ❸ - ❽

Set the self-diagnostic mode followings.

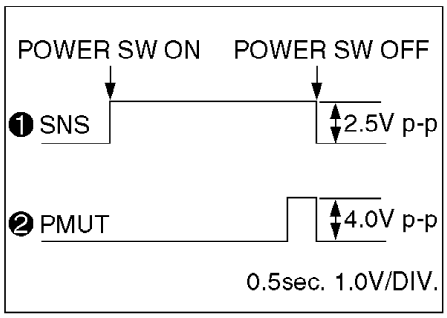
- While pressing two E keys (①) simultaneously, turn on the power switch.
- SOUND ..... CONCERT GRAND
- Main Volume ..... MAX
- Keyboard ..... A_1 (②)



Check point ❶ , ❷

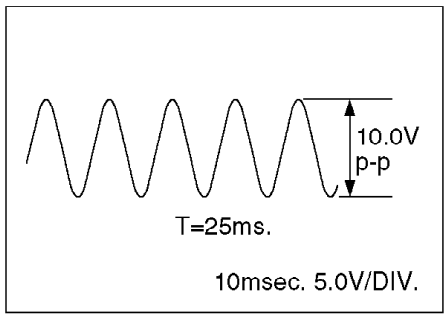
Set the initial setting mode (refer to "5, Initial Setting").

❶ SNS, ❷ PMUT

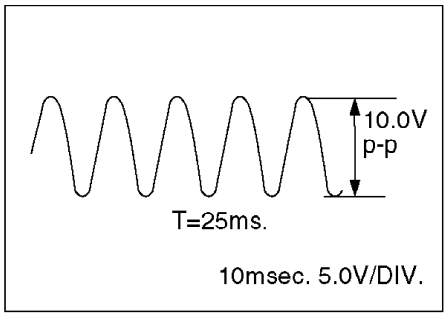


• Power SW..... ON → OFF

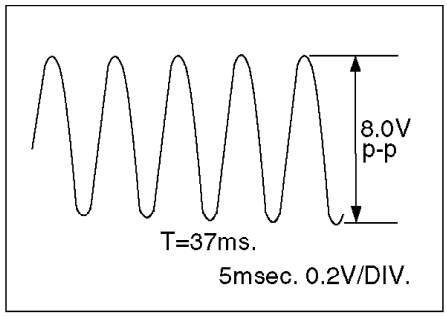
❸ SUML , ❹ SUMR



❺ HPL, ❻ HPR



❼ SPL, ❽ SPR



15. Schematic Diagram

16. Printed Circuit Board Diagram

17. Block Diagram

18. Wiring Connection Diagram

19. Replacement Parts List

Notes:

***Important safety notice: / Components identified by ⚠ mark have special characteristics important for safety. / Funrthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. / When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list. / *Warning: This product uses a laser diode. Refer to caution statements.**

***ACHTUNG:Die lasereinheit nicht zerlegen.Die lasereinheit darf nur gegen einc vom hersteller spezifizierte einheit ausgetauscht werden.**

***Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F= Farads (F) / *Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M= 1,000K (OHM)**

***The marking <RTL> indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly , and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

***Since SW consists of buttons and P.C.B.s, we do not supply it as an individual part (refer to "20. Cabiner Parts Location " and "21. Manual Keyboard Parts Location".).**

***"<IA>"-"<IE>", marks in Remarks indicate languages of instruction manuals. [<IA> : English, <IB> : English / Spanish / Chinese / Danish, <IC> : English / French / Nerderlands / Italian, <ID> : German, <IE> : French / Nerderlands / Italian / German]**

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	SBNG7050A	KNOB	1	
2	QGPG0125FA	CONTROL PANEL	1	
3	QMFG1107AA	FELT	1	
4	QGPG0106AA	PANEL	1	
5	QGPG0123BB	BUTTON	1	
6	QGPG0124AB	BUTTON	1	
7	QMCG004AA	SPACER	9	
8	QMRG5206AA	CUSHION	1	
9	SJS9231A	AC INLET COVER	1	EX,EB,EZ,EG,X,GN⚠
9	SJS9231A	AC INLET COVER	1	XA,XT,XD,XS⚠
9	SJS9334A	AC INLET COVER	1	P,PC,PY⚠
10	XYN4+F16FZ	SCREW	3	
11	QKSGG010DA	LEFT GUIDE	1	
12	QKSGG011DA	RIGHT GUIDE	1	
13	QKQGN914AAZ	MUSIC STAND	1	(K)
13	QKQGN914ABZ	MUSIC STAND	1	(M)
13-1	SBLG230A	STAY	2	
14	QKQGA136AAZ	TOP COVER ASS'Y	1	(K)
14	QKQGA136ABZ	TOP COVER ASS'Y	1	(M)
14-2	QMFG1274AA	FELT	3	
14-3	QMFG1057AA	FELT	4	
14-4	SGBG160B	TECHNICS BADGE	1	
15	QKQGF036AAZ	KEYBOARD COVER ASS'Y	1	(K)
15	QKQGF036ABZ	KEYBOARD COVER ASS'Y	1	(M)
15-1	QMRG7056AA	HOLDER	2	
15-2	QWBG002AA	HOLDER	1	
15-3	QXQG007AA	AXLETREE	1	
15-4	QGKG0140AA	ORNAMENT	1	(K)
15-4	QGKG0140AB	ORNAMENT	1	(M)
15-5	QMRG7031EC	PROTECTOR(L)	1	
15-6	QMRG7032EC	PROTECTOR(R)	1	
15-8	QGKG0132AA	ORNAMENT	1	(K)
15-8	QGKG0132AB	ORNAMENT	1	(M)
15-9	XTB4+10A	SCREW	2	
15-10	XTB3+10AFZ	SCREW	1	
15-11	XTB3+6A	SCREW	12	
16	QMRG5206AA	CUSHION	4	
17	SHRG1230A	CORD CLAMPER	1	
18	QLZG021A	CORE	3	
19	QYKG260AAZ	CABINET ASS'Y	1	(K)
19	QYKG260ABZ	CABINET ASS'Y	1	(M)
20	QKQGN992AAZ	CROSSBOARD	1	(K)
20	QKQGN992ABZ	CROSSBOARD	1	(M)
21	QAQG033AAK	LEFT LEG ASS'Y	1	(K)
21	QAQG033ABK	LEFT LEG ASS'Y	1	(M)
21-1	SHRG2130B-K	FOOT	2	
21-2	XTB4+16A	SCREW	4	
22	QAQG034AAK	RIGHT LEG ASS'Y	1	(K)
22	QAQG034ABK	RIGHT LEG ASS'Y	1	(M)
22-1	SHRG2130B-K	FOOT	2	
22-2	XTB4+16A	SCREW	4	
23	QMRG5230AA	CUSHION	1	
24	QMRG5229AA	CUSHION	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
25	QKQGN989AAZK	LEFT PLANK	1	(K)
25	QKQGN989ABZK	LEFT PLANK	1	(M)
26	QKQGN990AAZK	RIGHT PLANK	1	(K)
26	QKQGN990ABZK	RIGHT PLANK	1	(M)
27	QKQGM105AAZ	PEDAL BOX ASS'Y	1	(K)
27	QKQGM105ABZ	PEDAL BOX ASS'Y	1	(M)
27-1	QGKG0113AA	ORNAMENT	3	
28	QMBG009AA	SPRING	3	
29	QMFG1133AA	FELT	3	
30	QMFG1134AA	FELT	3	
31	QMWG4002AA	PEDAL ARM	3	
32	QMFG1135AA	FELT	3	
33	QKAG0011AA	FOOT	1	
34	SGKG980A	LABEL	1	
35	SHRG9620A	CORD CLAMPER	1	
36	QMFG1240AAK	FELT	2	
37	QMFG1241AAK	FELT	2	
41	QGUG1040AA	BUTTON,POWER SWITCH	1	
42	QGPG0139AB	END COVER PANEL,LEFT	1	
43	QGPG0138AB	END COVER PANEL,RIGHT	1	
44	QMFG1104AA	FELT	2	
45	QMWG1041AA	WHITE KEY(FIRST OCTAVE A)	1	
46	QMWG1042AA	WHITE KEY(B KEY)	8	
47	QMWG1043AA	WHITE KEY(C KEY)	7	
48	QMWG1044AA	WHITE KEY(D KEY)	7	
49	QMWG1045AA	WHITE KEY(E KEY)	7	
50	QMWG1046AA	WHITE KEY(F KEY)	7	
51	QMWG1047AA	WHITE KEY(G KEY)	7	
52	QMWG1048AA	WHITE KEY(A KEY)	7	
53	QMWG1049AA	WHITE KEY(TOP OCTAVE C)	1	
54	QMWG2006AA	BLACK KEY	36	
55	QMCG011BA	SPRING	88	
56	QMWG9027AA	HAMMER(BLACK KEY)	8	
57	QMWG9027AB	HAMMER(BLACK KEY)	14	
58	QMWG9027AC	HAMMER(BLACK KEY)	7	
59	QMWG9027AD	HAMMER(BLACK KEY)	7	
60	QMWG9025AA	HAMMER(WHITE KEY)	12	
61	QMWG9025AB	HAMMER(WHITE KEY)	19	
62	QMWG9025AC	HAMMER(WHITE KEY)	11	
63	QMWG9025AD	HAMMER(WHITE KEY)	10	
64	QMGG060AA	RUBBER CAP(HAMMER)	88	
65	QMWG8045AA	KEY GUIDE	88	
66	QMWG8041AA	FULCURUM(4PCS.ON ONE)	1	
67	QMWG8040AA	FULCURUM(12PCS.ON ONE)	7	
68	QMFG1267BA	FELT	2	
69	QMFG1268BA	FELT	2	
70	QMFG1266BA	FELT	4	
71	QMFG1265AA	FELT	2	
72	QMWG6021AA	RUBBER SWITCH	1	
73	QMWG6020AA	RUBBER SWITCH	7	
74	QMWG8038AA	HAMMER SUPPORT(WHITE KEY)	52	
75	QMWG8039AA	HAMMER SUPPORT(BLACK KEY)	36	
78	XTV3+10G	SCREW	3	
79	XTT4+14A	SCREW	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
80	XTB35+14A	SCREW	1	
81	XTN4+16F	SCREW	1	
82	XYA35+JA12	SCREW	3	
83	XTW3+10Q	SCREW	21	
84	XTW3+20TFZ	SCREW	7	
85	XTT4+12AFZ	SCREW	2	
86	XYA35+JA12	SCREW	14	
87	XYN3+C8FZ	SCREW	1	
88	XTV3+10JFZ	SCREW	3	
90	XYN4+F16	SCREW	4	
91	XTT4+20A	SCREW	8	
92	QHDG021AA	SCREW	10	
93	QHWG007AA	NUT	1	
94	QHDG055AA	SCREW	8	
95	XTT4+25A	SCREW	6	
96	GTT4+25AFZ	SCREW	4	
97	QHDG016AB	SCREW WITH WASHER	6	
98	XTB35+16A	SCREW	10	
99	XTN4+50AFZ	SCREW	2	
100	QHDG032AB	SCREW WITH WASHER	4	
101	XNS12	NUT	2	
102	XTB3+10AFZ	SCREW	2	
103	XTT4+10AFZ	SCREW	2	
104	XTT5+20AFZ	SCREW	4	
106	XTV3+12G	SCREW	2	
107	XTW3+10T	SCREW	16	
108	XTV3+12G	SCREW	2	
109	XTV3+20JFZ	SCREW	2	
A1	QJAG025AA	AC CORD	1	P,PC,PY⚠
A1	QJAG027AA	AC CORD	1	EX,EZ,EG,X,XS,XT⚠
A1	QJAG028AA	AC CORD	1	EB,XD⚠
A1	QJAG029AA	AC CORD	1	GN⚠
A1	QJAG031AA	AC CORD	1	XA⚠
A2	QQFGPX552AA	INSTRUCTION MANUAL	1	P<IA>
A2	QQFGPX552CA	INSTRUCTION MANUAL	1	EX,X,XT,XD,PY,XA<IB>
A2	QQFGPX552DA	INSTRUCTION MANUAL	1	PC<IC>
A2	QQFGPX552EA	INSTRUCTION MANUAL	1	EB,GN,XS<IA>
A2	QQFGPX552FA	INSTRUCTION MANUAL	1	EZ<ID>
A2	QQFGPX552GA	INSTRUCTION MANUAL	1	EG<IE>
A3	SJP5213-2	ATTACHMENT PLUG	1	X,XT⚠
C1	ECEA0JKS101	6.3V 100U	1	CPL
C1	ECKCVA1472MF	4700P	1	FJASP⚠
C1	ECKF1E473XV	25V 0.047U	1	HP
C1	ECRF1H104ZF	50V 0.1U	1	MKB1
C1	ECUV1C224KBX	16V 0.22U	1	MAIN
C1	ECRF1H104ZF	50V 0.1U	1	PKB
C2	ECEA0JKA470	6.3V 47U	1	MKB1
C2	ECKF1E473XV	25V 0.047U	1	HP
C2	ECQU2A104MN	0.1U	1	FJASP⚠
C2	ECUV1C224KBX	16V 0.22U	1	MAIN
C2	QCBG1H104ZFA	50V 0.1U	1	CPL

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3	ECBT1E223ZF5	25V 0.022U	1	CPL
C3	ECRF1H104ZF	50V 0.1U	1	HP
C3	ECRR1H104ZF1	50V 0.1U	1	MAIN
C4	ECA1VM472	35V 4700	1	FJASP
C4	ECEA0JKA470	6.3V 47U	1	MKB1
C4	ECEA0JKS101	6.3V 100U	1	CPL
C4	ECEA1HKA010	50V 1U	1	MAIN
C5	ECRF1H104ZF	50V 0.1U	1	MKB2
C6	ECA1VM472	35V 4700	1	FJASP
C6	ECRF1H104ZF	50V 0.1U	1	MKB1
C6	ECUV1H101JG	50V 100P	1	MAIN
C7	ECRF1H104ZF	50V 0.1U	1	MKB1
C7	ECUV1H101JG	50V 100P	1	MAIN
C7	QCBG1H104ZFA	50V 0.1U	1	CPL
C8	ECCR1H104ZF1	50V 0.1U	1	FJASP
C8	ECUV1H104ZFX	50V 0.1U	1	MAIN
C9	ECCR1H104ZF1	50V 0.1U	1	FJASP
C9	ECUV1H104ZFX	50V 0.1U	1	MAIN
C10	ECEA1CKA100	16V 10U	1	FJASP
C10	ECUV1H104ZFX	50V 0.1U	1	MAIN
C10	QCBG1H104ZFA	50V 0.1U	1	CPL
C11	ECA1CM331	16V 330U	1	FJASP
C11	ECUV1H104ZFX	50V 0.1U	1	MAIN
C12	ECEA1HKN010	50V 1U	1	FJASP
C13	ECCR1H221J	50V 220P	1	FJASP
C13	ECUV1H101JG	50V 100P	1	MAIN
C14	ECEA1HKN010	50V 1U	1	FJASP
C14	ECUV1H101JG	50V 100P	1	MAIN
C15	ECCR1H221J	50V 220P	1	FJASP
C15	ECUV1H104ZFX	50V 0.1U	1	MAIN
C16	ECQB1H153JF	50V 0.015U	1	FJASP
C16	ECUV1H104ZFX	50V 0.1U	1	MAIN
C17	ECQB1H333JF	50V 0.0033U	1	FJASP
C17	ECUV1H104ZFX	50V 0.1U	1	MAIN
C18	ECQG1H682KZ	50V 0.0068U	1	FJASP
C19	ECEA1HKN010	50V 1U	1	FJASP
C19	ECUV1H104ZFX	50V 0.1U	1	MAIN
C20	ECQB1H473JF	50V 0.047U	1	FJASP
C20	ECUV1C224KBX	16V 0.22U	1	MAIN
C21	ECQB1H473JF	50V 0.047U	1	FJASP
C22	ECQG1H222KZ	50V 0.0022U	1	FJASP
C23	ECQV1H224JM	50V 0.22U	1	FJASP
C23	ECUV1H102JX	50V 0.01U	1	MAIN
C24	ECQG1H472KZ	50V 0.0047U	1	FJASP
C24	ECUV1H101JG	50V 100P	1	MAIN
C25	ECQB1H333JF	50V 0.0033U	1	FJASP
C25	ECUV1H101JG	50V 100P	1	MAIN
C26	ECQG1H222KZ	50V 0.0022U	1	FJASP
C26	ECUV1H104ZFX	50V 0.1U	1	MAIN
C27	ECQG1H682KZ	50V 0.0068U	1	FJASP
C27	ECUV1H104ZFX	50V 0.1U	1	MAIN
C28	ECEA1CKA470	16V 47U	1	MAIN
C28	ECQG1H102KZ	50V 0.001U	1	FJASP
C29	ECQB1H153JF	50V 0.015U	1	FJASP

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C29	EECS5R5V105	5.5V 1	1	MAIN
C30	ECEA1HKN010	50V 1U	1	FJASP
C30	ECUV1H104ZFX	50V 0.1U	1	MAIN
C31	ECQB1H473JF	50V 0.047U	1	FJASP
C32	ECQB1H333JF	50V 0.0033U	1	FJASP
C33	ECQG1H682KZ	50V 0.0068U	1	FJASP
C34	ECQV1H224JM	50V 0.22U	1	FJASP
C35	ECQG1H472KZ	50V 0.0047U	1	FJASP
C36	ECQB1H473JF	50V 0.047U	1	FJASP
C36	ECUV1H104ZFX	50V 0.1U	1	MAIN
C37	ECQG1H222KZ	50V 0.0022U	1	FJASP
C37	ECUV1H104ZFX	50V 0.1U	1	MAIN
C38	ECQB1H333JF	50V 0.0033U	1	FJASP
C38	ECUV1H104ZFX	50V 0.1U	1	MAIN
C39	ECQG1H222KZ	50V 0.0022U	1	FJASP
C39	ECUV1H104ZFX	50V 0.1U	1	MAIN
C40	ECQG1H682KZ	50V 0.0068U	1	FJASP
C40	ECUV1H104ZFX	50V 0.1U	1	MAIN
C41	ECQG1H102KZ	50V 0.001U	1	FJASP
C41	ECUV1H104ZFX	50V 0.1U	1	MAIN
C42,43	ECCR1H100D5	50V 10P	2	FJASP
C44	ECQV1H104JM	50V 0.15U	1	FJASP
C45	ECQB1H223JF	50V 0.022U	1	FJASP
C45	ECUV1H104ZFX	50V 0.1U	1	MAIN
C46	ECQV1H104JM	50V 0.15U	1	FJASP
C48	ECUV1H104ZFX	50V 0.1U	1	MAIN
C49	ECQV1H104JM	50V 0.15U	1	FJASP
C50	ECQB1H223JF	50V 0.022U	1	FJASP
C51	ECQV1H104JM	50V 0.15U	1	FJASP
C51	ECUV1H104ZFX	50V 0.1U	1	MAIN
C54	ECBT1C222MR5	16V 2200P	1	FJASP
C54	ECUV1H104ZFX	50V 0.1U	1	MAIN
C55	ECBT1C222MR5	16V 2200P	1	FJASP
C55	ECUV1H104ZFX	50V 0.1U	1	MAIN
C56	ECCR1H104ZF1	50V 0.1U	1	FJASP
C56	ECUV1H104ZFX	50V 0.1U	1	MAIN
C57	ECCR1H104ZF1	50V 0.1U	1	FJASP
C57	ECUV1H104ZFX	50V 0.1U	1	MAIN
C58,59	ECBT1C222MR5	16V 2200P	2	FJASP
C60	ECCR1H104ZF1	50V 0.1U	1	FJASP
C60	ECUV1H104ZFX	50V 0.1U	1	MAIN
C62	ECEA1CKA100	16V 10U	1	MAIN
C63,64	ECUV1H104ZFX	50V 0.1U	2	MAIN
C65	ECCR1H221J	50V 220P	1	FJASP
C65	ECEA1CKA100	16V 10U	1	MAIN
C66	ECEA1HKNR47	50V 0.47U	1	MAIN
C66	ECKR1E473ZV	25V 0.047U	1	FJASP
C67	ECEA1HKA010	50V 1U	1	FJASP
C67	ECEA1HKNR47	50V 0.47U	1	MAIN
C73	ECCR1H104ZF1	50V 0.1U	1	FJASP
C77	ECUV1H104ZFX	50V 0.1U	1	MAIN
C78-82	ECUV1H101JG	50V 100P	5	MAIN
C83	ECUV1H104ZFX	50V 0.1U	1	MAIN
C84	ECEA0JKA101	6.3V 47U	1	MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C85,86	ECUV1H101JG	50V 100P	2	MAIN
C87	ECRR1H104ZF1	50V 0.1U	1	MAIN
C88	ECA1VM470	35V 47	1	MAIN
C89	ECRR1H104ZF1	50V 0.1U	1	MAIN
C90	ECUV1H101JG	50V 100P	1	MAIN
C91	ECA0JM102	6.3V 1000U	1	MAIN
C92	ECUV1H102JX	50V 0.01U	1	MAIN
C95	ECUV1H102JX	50V 0.01U	1	MAIN
C107	ECUV1H101JG	50V 100P	1	MAIN
C108	ECRR1H104ZF1	50V 0.1U	1	MAIN
C109	ECUV1H101JG	50V 100P	1	MAIN
C110	ECRR1H104ZF1	50V 0.1U	1	MAIN
C111	ECUV1H104ZFX	50V 0.1U	1	MAIN
C116	ECEA0JKA101	6.3V 47U	1	MAIN
C120,21	ECUV1H221JG	50V 220P	2	MAIN
CN1	SJPG1JS100A	CONNECTOR(10P)	1	COM
CN1	SJPG1JS120A	CONNECTOR(12P)	1	MAIN
CN1	SJPG2JS050A	CONNECTOR(5P)	1	CPL
CN1	SJPG2JS060A	CONNECTOR(6P)	1	HP
CN1	SJPG7JS020A	CONNECTOR(2P)	1	FJASP
CN2	SJPG1JS060A	CONNECTOR(6P)	1	MAIN
CN2	SJPG2JS160A	CONNECTOR(16P)	1	CPL
CN2	SJPG7JS040A	CONNECTOR(4P)	1	FJASP
CN3	SJPG1JS050A	CONNECTOR(5P)	1	MAIN
CN3	SJPG1JS160A	CONNECTOR(16P)	1	MKB1
CN3	SJPG7JS030A	CONNECTOR(3P)	1	FJASP
CN3	SJPG2JS160A	CONNECTOR(16P)	1	CPR
CN4	QJTG0182AA	CONNECTOR(12P)	1	MKB2
CN4	SJPG1JS060A	CONNECTOR(6P)	1	FJASP
CN4	SJPG1JS160A	CONNECTOR(16P)	1	MAIN
CN4	SJPG2JS060A	CONNECTOR(6P)	1	CPL
CN5	SJPG1JS120A	CONNECTOR(12P)	1	FJASP
CN6	SJPG1JS070A	CONNECTOR(7P)	1	FJASP
CN6	SJPG1JS070A	CONNECTOR(7P)	1	MAIN
CN7	QEUGQ8H08BCZ	CONNECTOR(8P)	1	MKB2
CN8	QJUG00212AA	CONNECTOR(12P)	1	MKB1
CN8	SJPG1290A	CONNECTOR(2P)	1	FJASP
CN8	SJPG1JS100A	CONNECTOR(10P)	1	MAIN
CN9	QJUG01408AA	CONNECTOR(8P)	1	MKB1
CN9	SJPG1290A	CONNECTOR(2P)	1	FJASP
CN9	SJPG1JS040A	CONNECTOR(4P)	1	MAIN
D1	ERA1502V5	DIODE	1	FJASP⚠
D1	MA165	DIODE	1	MKB1
D1	MA165TA5	DIODE	1	CPR
D1	MA8030HTX	DIODE	1	MAIN
D1	SEL4214RLC05	DIODE	1	HP
D2	ERA1502V5	DIODE	1	FJASP⚠
D2	MA111	DIODE	1	MAIN
D2	MA165	DIODE	1	MKB1
D2	MA165TA5	DIODE	1	CPR
D3	MA111	DIODE	1	MAIN
D3,D4	MA165	DIODE	2	MKB1

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D4	SVDGS3V20-15	DIODE	1	FJASP⚠
D5,D6	MA165	DIODE	2	MKB1
D6	SVDGS3V20-15	DIODE	1	FJASP⚠
D7	MA165	DIODE	1	MKB1
D7	SVDGS3V20-15	DIODE	1	FJASP⚠
D8	MA111	DIODE	1	MAIN
D8	MA165	DIODE	1	MKB1
D9	MA111	DIODE	1	MAIN
D9	MA165	DIODE	1	MKB1
D9	MA165TA5	DIODE	1	CPR
D9	SVDGS3V20-15	DIODE	1	FJASP⚠
D10	MA111	DIODE	1	MAIN
D10	MA165	DIODE	1	MKB1
D10	MA165TA5	DIODE	1	CPR
D11	MA111	DIODE	1	MAIN
D11	MA165	DIODE	1	MKB1
D11	MA4180TA	DIODE	1	FJASP
D12	MA111	DIODE	1	MAIN
D12	MA165	DIODE	1	MKB1
D12	MA4180TA	DIODE	1	FJASP
D13	EK04W	DIODE	1	FJASP
D13	MA111	DIODE	1	MAIN
D13	MA165	DIODE	1	MKB1
D14	EK04W	DIODE	1	FJASP
D14	MA111	DIODE	1	MAIN
D14,15	MA165	DIODE	2	MKB1
D15	MA165TA5	DIODE	1	FJASP
D15	MA8056MTX	DIODE	1	MAIN
D16	MA165	DIODE	1	MKB1
D16	MA165TA5	DIODE	1	FJASP
D16	MA8047HTX	DIODE	1	MAIN
D17	MA111	DIODE	1	MAIN
D17	MA165	DIODE	1	MKB1
D17	MA165TA5	DIODE	1	FJASP
D17	MA165TA5	DIODE	1	CPR
D18	MA111	DIODE	1	MAIN
D18	MA165	DIODE	1	MKB1
D18	MA165TA5	DIODE	1	CPR
D19	EK04W	DIODE	1	MAIN
D19,20	MA165	DIODE	2	MKB1
D20	MA2062LF	DIODE	1	MAIN⚠
D21	MA111	DIODE	1	MAIN
D21	MA165	DIODE	1	MKB1
D22	MA111	DIODE	1	MAIN
D22	MA165	DIODE	1	MKB1
D22	MA165TA5	DIODE	1	FJASP
D23	MA111	DIODE	1	MAIN
D23	MA165	DIODE	1	MKB1
D23	MA165TA5	DIODE	1	FJASP
D24	MA111	DIODE	1	MAIN
D24	MA165	DIODE	1	MKB1
D25	MA111	DIODE	1	MAIN
D25	MA165	DIODE	1	MKB1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D25	MA165TA5	DIODE	1	CPR
D26	MA111	DIODE	1	MAIN
D26	MA165	DIODE	1	MKB1
D26	MA165TA5	DIODE	1	CPR
D27	MA111	DIODE	1	MAIN
D27	MA165	DIODE	1	MKB1
D28	MA111	DIODE	1	MAIN
D28	MA165	DIODE	1	MKB1
D29	MA111	DIODE	1	MAIN
D29,30	MA165	DIODE	2	MKB1
D30	MA165TA5	DIODE	1	FJASP
D31	MA111	DIODE	1	MAIN
D31	MA165	DIODE	1	MKB1
D31	MA165TA5	DIODE	1	FJASP
D32	MA1039MTR	DIODE	1	MAIN
D32	MA165	DIODE	1	MKB1
D32	MA165TA5	DIODE	1	FJASP
D33	MA165	DIODE	1	MKB1
D33	MA165TA5	DIODE	1	CPR
D34	MA165	DIODE	1	MKB1
D34	MA165TA5	DIODE	1	CPR
D35-41	MA165	DIODE	7	MKB1
D41	MA165TA5	DIODE	1	CPR
D42	MA165	DIODE	1	MKB1
D42	MA165TA5	DIODE	1	CPR
D43-49	MA165	DIODE	7	MKB1
D49	MA165TA5	DIODE	1	CPR
D50-59	MA165	DIODE	10	MKB1
D59	MA165TA5	DIODE	1	CPL
D60	MA165	DIODE	1	MKB1
D60	MA165TA5	DIODE	1	CPL
D61-66	MA165	DIODE	6	MKB1
D66	MA165TA5	DIODE	1	CPL
D67	MA165	DIODE	1	MKB1
D67	MA165TA5	DIODE	1	CPL
D68	MA165	DIODE	1	MKB1
D68	MA165TA5	DIODE	1	CPL
D69	MA165	DIODE	1	MKB1
D69	MA165TA5	DIODE	1	CPL
D70-73	MA165	DIODE	4	MKB1
D73	MA165TA5	DIODE	1	CPL
D74	MA165	DIODE	1	MKB1
D74	MA165TA5	DIODE	1	CPL
D75	MA165	DIODE	1	MKB1
D75	MA165TA5	DIODE	1	CPL
D76	MA165	DIODE	1	MKB1
D76	MA165TA5	DIODE	1	CPL
D77-81	MA165	DIODE	5	MKB1
D81	MA165TA5	DIODE	1	CPL
D82-84	MA165	DIODE	3	MKB1
D84	MA165TA5	DIODE	1	CPL
D85-88	MA165	DIODE	4	MKB1
D89	MA165TA5	DIODE	1	CPL
D89-176	MA165	DIODE	88	MKB2

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D232-42	LN282RPXVTX2	LED	11	CPR
D244-46	LN282RPXVTX2	LED	3	CPR
D256-59	LN282RPXVTX2	LED	4	CPL
D265-67	LN282RPXVTX2	LED	3	CPL
D280-83	LN282RPXVTX2	LED	4	CPL
D288	LN282RPXVTX2	LED	1	CPL
D291	LN282RPXVTX2	LED	1	CPL
F1	XBA1C40NU100	FUSE,4A	1	FJASP(P,PC,PY)⚠
F1	XBA2C16TB0	FUSE,T1.6A	1	FJASP(X,XS,XD,XT,XA)⚠
F2	XBA2C10TB0	FUSE,T1.0A	1	FJASP(X,XS,XT,XD,XA)⚠
F3	XBA2C10TB0	FUSE,T1.0A	1	FJASP(EX,EZ,EG,EB,GN)⚠
F3	XBA2C10TB0	FUSE,T1.0A	1	FJASP(X,XS,XD,XT,XA)⚠
F4	XBA2C16TB0	FUSE,T1.6A	1	FJASP(EX,EZ,EG,EB,GN)⚠
F4	XBA2C16TB0	FUSE,T1.6A	1	FJASP(X,XS,XD,XT,XA)⚠
F4	XBA1C20NU100	FUSE,2A	1	FJASP(P,PC,PY)⚠
F5	XBA1C20NU100	FUSE,2A	1	FJASP(P,PC,PY)⚠
F5	XBA2C16TB0	FUSE,T1.6A	1	FJASP(EX,EZ,EG,EB,GN)⚠
F5	XBA2C16TB0	FUSE,T1.6A	1	FJASP(X,XS,XD,XT,XA)⚠
IC1	HD74LS138P	IC	1	MKB1
IC1	KIA7815PI	IC	1	FJASP⚠
IC1	M37471M2196S	IC	1	CPL
IC1	TMP95C061BF	IC	1	MAIN
IC2	D74HC139GSE2	IC	1	MAIN
IC2	HD74LS07P	IC	1	CPL
IC2	HD74LS138P	IC	1	MKB2
IC2	KIA7915PI	IC	1	FJASP⚠
IC3	HD74LS07P	IC	1	CPL
IC3	HD74LS138P	IC	1	MKB2
IC3	M5218AL	IC	1	FJASP
IC3	M5M34051FPE2	IC	1	MAIN
IC4	M5218AL	IC	1	FJASP
IC4	T7WU04FTE12L	IC	1	MAIN
IC5	M5218AL	IC	1	FJASP
IC5	T7WU04FTE12L	IC	1	MAIN
IC6	M5218AL	IC	1	FJASP
IC6	QSIGX3C04005	IC	1	MAIN
IC6	SQTG9011A	IC	1	MAIN
IC6	X27C4096DC10	IC	1	MAIN
IC7,C8	M5218AL	IC	2	FJASP
IC8	M5256DFP70LL	IC	1	MAIN
IC9	M5218AL	IC	1	FJASP
IC9	M5256DFP70LL	IC	1	MAIN
IC10	D97315GD201	IC	1	MAIN
IC10	M5218AL	IC	1	FJASP
IC11	LH5P832N-10	IC	1	MAIN
IC11	M5218AL	IC	1	FJASP
IC12	QCPL-260L	IC	1	FJASP
IC12	QSIGX3C64001	IC	1	MAIN
IC14	TC7W08FTE12L	IC	1	MAIN
IC15	TC7W04FTE12L	IC	1	MAIN
IC21	PCM1734EA-E2	IC	1	MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC26	M5218AFPE3	IC	1	MAIN
JK1	QJJG010AA	JACK,HEADPHONE	1	HP
JK1	QJSG007AA	JACK,PEDAL IN	1	FJASP
JK1	QJSG017AA	JACK,COMPUTER	1	COM
JK2	QJJG010AA	JACK,HEADPHONE	1	HP
JK2	QJSG016AA	JACK,MIDI IN	1	FJASP
JK3	QJSG016AA	JACK,MIDI OUT	1	FJASP
JK5	QJJG003AA	JACK,AUX L	1	FJASP
JK6	QJJG003AA	JACK,AUX R/R+L	1	FJASP
JK7	QJJG003AA	JACK,LINE OUT L	1	FJASP
JK8	QJJG003AA	JACK,LINE OUT R/R+L	1	FJASP
JK9	SJVD0203B	JACK,AC INLET	1	FJASP⚠
JR1-R3	ERDS2T0	1/4W 0	3	PKB
L1	QLQGT1B100MA	COIL	1	MAIN
L1	QLQGT2T100LA	COIL	1	FJASP⚠
L1	QLQGT3T131LA	COIL	1	HP
L2,L3	QLQGT3T131LA	COIL	2	FJASP
L4	QLQGT1B101KA	COIL	1	MAIN
L4	QLQGT3T131LA	COIL	1	FJASP
L5	QLQGT1B100MA	COIL	1	MAIN
L5	QLQGT3T131LA	COIL	1	FJASP
L6	QLBG002A	COIL	1	MAIN⚠
L6,L7	QLQGT3T131LA	COIL	2	FJASP
L8,L9	ERJ6GEY0R00V	1/10W 0	2	MAIN
L11,12	ERJ6GEY0R00V	1/10W 0	2	MAIN
L14-27	ERJ6GEY0R00V	1/10W 0	14	MAIN
L29-31	ERJ6GEY0R00V	1/10W 0	3	MAIN
L33-35	ERJ6GEY0R00V	1/10W 0	3	MAIN
L41-45	ERJ6GEY0R00V	1/10W 0	5	MAIN
L46-49	ERJ6GEYJ471V	1/10W 470	4	MAIN
L50	ERJ6GEY0R00V	1/10W 0	1	MAIN
LED1	T512SRDBS119	LED	1	CPR
P1	QPGG0480AA	PACKING CASE	1	(K)
P1	QPGG0480AB	PACKING CASE	1	(M)
PCB1	SXPG218221	PKB P.C.B.	1	(RTL)
PCB2	SXPG231111A	MKB1 P.C.B.	1	(RTL)
PCB3	SXPG231111B	MKB2 P.C.B.	1	(RTL)
PCB4	SXPG235011	MAIN P.C.B.	1	(RTL)
PCB5	SXPG227921	COM P.C.B.	1	(RTL)
PCB6	SXPG224322	HP P.C.B.	1	(RTL)
PCB7	SXPG2244241A	FJASP P.C.B.	1	(RTL)EX,EB,EZ,EG,GN
PCB7	SXPG2244251A	FJASP P.C.B.	1	(RTL)P,PC,PY
PCB7	SXPG2244261A	FJASP P.C.B.	1	(RTL)X,XS,XT,XD,XA
PCB8	SXPG227861A	CPL P.C.B.	1	(RTL)
PCB9	SXPG227861B	CPR P.C.B.	1	(RTL)
Q1	2SB709AR	TRANSISTOR	1	MAIN
Q1	2SC1815TPE2	TRANSISTOR	1	FJASP
Q2	2SA830STPB	TRANSISTOR	1	CPL
Q2	2SB709AR	TRANSISTOR	1	MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q2	2SC1815TPE2	TRANSISTOR	1	FJASP
Q3	2SA1015TPE2	TRANSISTOR	1	FJASP
Q3	2SA830STPB	TRANSISTOR	1	CPL
Q3	2SD601AQ	TRANSISTOR	1	MAIN
Q4	2SA830STPB	TRANSISTOR	1	CPL
Q4	2SC1815TPE2	TRANSISTOR	1	FJASP
Q5	2SA1015TPE2	TRANSISTOR	1	FJASP
Q5	2SA830STPB	TRANSISTOR	1	CPL
Q5	2SD601AQ	TRANSISTOR	1	MAIN
Q6	2SA1015TPE2	TRANSISTOR	1	FJASP
Q6	2SA830STPB	TRANSISTOR	1	CPL
Q6	2SD601AQ	TRANSISTOR	1	MAIN
Q7	2SB621ARS	TRANSISTOR	1	MAIN
Q7	2SD592ARS	TRANSISTOR	1	FJASP
Q8	2SB621ARS	TRANSISTOR	1	FJASP
Q8,Q9	2SC1815TPE2	TRANSISTOR	2	MAIN
Q9	2SD592ARS	TRANSISTOR	1	FJASP
Q10	2SB621ARS	TRANSISTOR	1	FJASP
Q11	2SC1815TPE2	TRANSISTOR	1	FJASP
Q12	2SA1015TPE2	TRANSISTOR	1	FJASP
Q13	2SC1815TPE2	TRANSISTOR	1	FJASP
Q14	2SA1015TPE2	TRANSISTOR	1	FJASP
Q15	2SA1725PY	TRANSISTOR	1	FJASP⚠
Q16	2SC4511PY	TRANSISTOR	1	FJASP⚠
Q17	2SA1725PY	TRANSISTOR	1	FJASP⚠
Q18	2SC4511PY	TRANSISTOR	1	FJASP⚠
Q20	2SA933STRS	TRANSISTOR	1	FJASP
R1	ERDS2TJ103	1/4W 10K	1	FJASP
R1	ERDS2TJ472	1/4W 4.7K	1	CPL
R1	ERG1SJ470	47	1	HP⚠
R2	ERDS2T0	1/4W 0	1	CPL
R2	ERDS2TJ103	1/4W 10K	1	FJASP
R2	ERG1SJ470	47	1	HP⚠
R2	ERJ6GEYJ472V	1/10W 4.7K	1	MAIN
R3	ERD2FCVJ6R8	6.8	1	FJASP⚠
R3	ERDS2T0	1/4W 0	1	CPL
R3	ERG1SJ470	47	1	HP⚠
R3	ERJ6GEYJ103V	1/10W 10K	1	MAIN
R4	ERD2FCVJ6R8	6.8	1	FJASP⚠
R4	ERDS2TJ101	1/4W 100	1	CPL
R4	ERG1SJ470	47	1	HP⚠
R4	ERJ6GEYJ222V	1/10W 2.2K	1	MAIN
R5	ERD2FCVJ6R8	6.8	1	FJASP⚠
R5	ERDS2TJ471	1/4W 470	1	CPL
R5	ERJ6GEYJ102V	1/10W 1K	1	MAIN
R6	ERDS2TJ104	1/4W 100K	1	FJASP
R6	ERDS2TJ221	1/4W 220	1	CPL
R6	ERJ6GEYJ102V	1/10W 1K	1	MAIN
R7	ERDS2TJ221	1/4W 220	1	CPL
R7	ERDS2TJ473	1/4W 47K	1	FJASP
R7	ERJ6GEYJ104V	1/10W 100K	1	MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8	ERDS2TJ471	1/4W 470	1	CPL
R8	ERDS2TJ472	1/4W 4.7K	1	PKB
R8	ERDS2TJ473	1/4W 47K	1	FJASP
R8	ERJ6GEYJ104V	1/10W 100K	1	MAIN
R9	ERDS2TJ103	1/4W 10K	1	FJASP
R9	ERDS2TJ472	1/4W 4.7K	1	PKB
R9	ERJ6GEYJ101V	1/10W 100	1	MAIN
R10	ERDS2TJ103	1/4W 10K	1	CPL
R10	ERDS2TJ332	1/4W 3.3K	1	FJASP
R10	ERDS2TJ472	1/4W 4.7K	1	PKB
R10	ERJ6GEYJ471V	1/10W 470	1	MAIN
R11	ERDS2TJ104	1/4W 100K	1	CPL
R11	ERDS2TJ472	1/4W 4.7K	1	FJASP
R11	ERJ6GEYJ471V	1/10W 470	1	MAIN
R12	ERDS2TJ103	1/4W 10K	1	FJASP
R12	ERJ6GEYJ154V	1/10W 150K	1	MAIN
R13	ERDS2TJ103	1/4W 10K	1	FJASP
R13	ERJ6GEYJ154V	1/10W 150K	1	MAIN
R14	ERDS2TJ103	1/4W 10K	1	FJASP
R14	ERJ6GEYJ154V	1/10W 150K	1	MAIN
R15	ERDS2TJ103	1/4W 10K	1	CPL
R15	ERDS2TJ472	1/4W 4.7K	1	FJASP
R15	ERJ6GEYJ152V	1/10W 1.5K	1	MAIN
R16	ERDS2TJ103	1/4W 10K	1	CPL
R16	ERJ6GEYJ152V	1/10W 1.5K	1	MAIN
R16	QLQGT1B800MB	800M	1	FJASP⚠
R17	ERDS2TJ103	1/4W 10K	1	CPL
R17	ERDS2TJ332	1/4W 3.3K	1	FJASP
R17	ERJ6GEYJ152V	1/10W 1.5K	1	MAIN
R18	ERDS2TJ103	1/4W 10K	1	CPL
R18	ERDS2TJ334	1/4W 330K	1	FJASP
R18	ERJ6GEYJ103V	1/10W 10K	1	MAIN
R19	ERDS2TJ103	1/4W 10K	1	CPL
R19	ERDS2TJ274	1/4W 270K	1	FJASP
R19	ERJ6GEY0R00V	1/10W 0	1	MAIN
R20	ERDS2TJ222	1/4W 2.2K	1	FJASP
R20	ERJ6GEY0R00V	1/10W 0	1	MAIN
R21	ERDS2TJ103	1/4W 10K	1	CPL
R21	ERDS2TJ220	1/4W 220	1	FJASP
R21	ERJ6GEY0R00V	1/10W 0	1	MAIN
R22	ERD25FVJ4R7	4.7	1	FJASP⚠
R22	ERDS2TJ103	1/4W 10K	1	CPL
R22	ERJ6GEY0R00V	1/10W 0	1	MAIN
R23	ERD2FCVG220	22	1	FJASP⚠
R23	ERDS2TJ103	1/4W 10K	1	CPL
R23	ERJ6GEY0R00V	1/10W 0	1	MAIN
R24	ERDS2TJ103	1/4W 10K	1	CPL
R24	ERDS2TJ334	1/4W 330K	1	FJASP
R24	ERJ6GEYJ105V	1/10W 1M	1	MAIN
R25	ERDS2TJ103	1/4W 10K	1	CPL
R25	ERDS2TJ274	1/4W 270K	1	FJASP
R25	ERJ6GEY0R00V	1/10W 0	1	MAIN
R26	ERDS2TJ101	1/4W 100	1	CPL

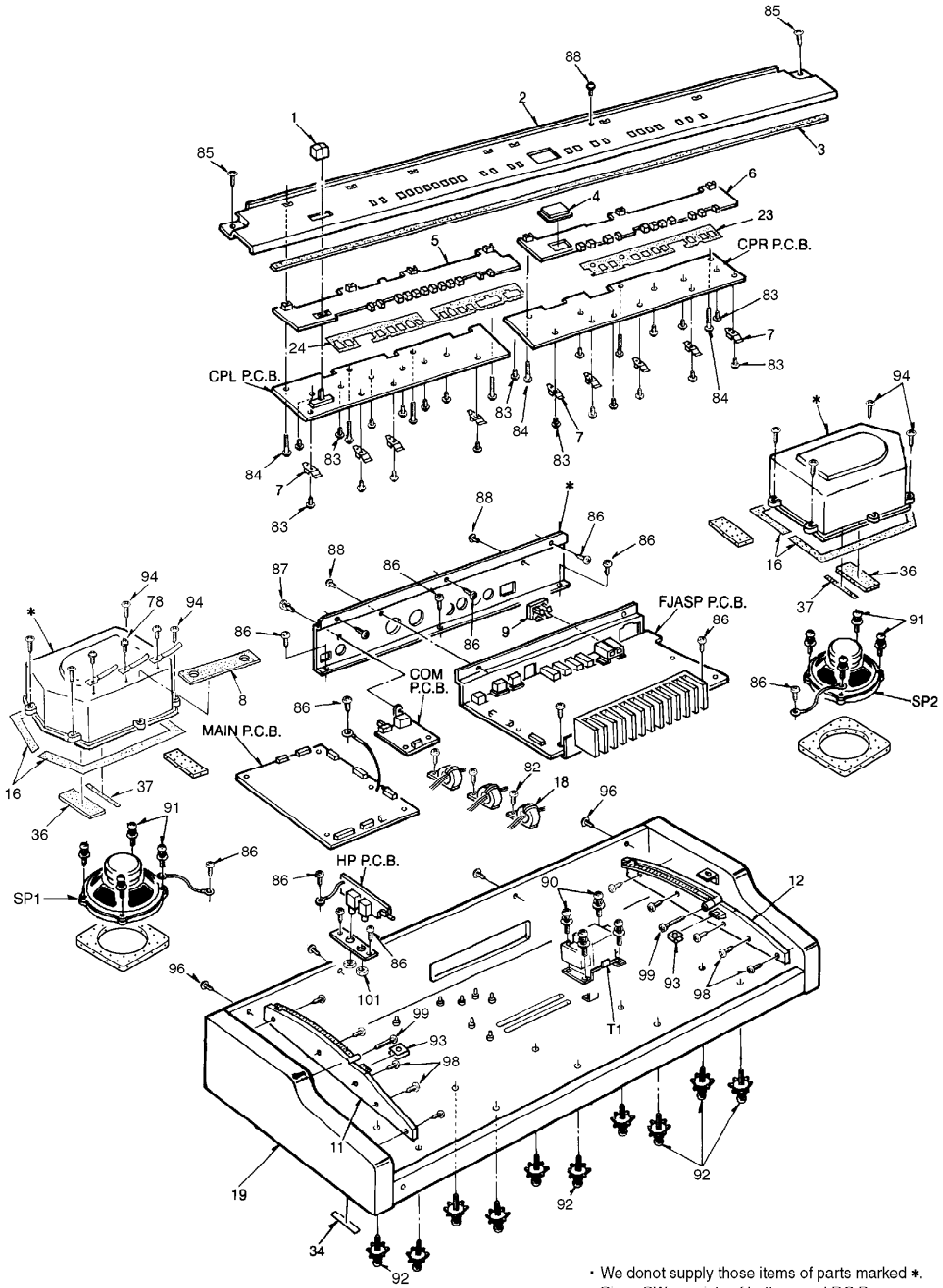
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R26	ERDS2TJ222	1/4W 2.2K	1	FJASP
R26	ERJ6GEYJ471V	1/10W 470	1	MAIN
R27	ERDS2TJ101	1/4W 100	1	CPL
R27	ERDS2TJ220	1/4W 220	1	FJASP
R27	ERJ6GEYJ471V	1/10W 470	1	MAIN
R28	ERD25FVJ4R7	4.7	1	FJASP⚠
R28	ERDS2TJ101	1/4W 100	1	CPL
R28	ERJ6GEYJ471V	1/10W 470	1	MAIN
R29	ERD2FCVG220	22	1	FJASP⚠
R29	ERDS2TJ101	1/4W 100	1	CPL
R29	ERJ6GEYJ471V	1/10W 470	1	MAIN
R30	ERDS2TJ101	1/4W 100	1	CPL
R30	ERDS2TJ332	1/4W 3.3K	1	FJASP
R30	ERJ6GEYJ103V	1/10W 10K	1	MAIN
R31	ERDS2TJ101	1/4W 100	1	CPL
R31	ERDS2TJ223	1/4W 22K	1	FJASP
R32	ERDS2TJ101	1/4W 100	1	CPL
R32	ERDS2TJ223	1/4W 22K	1	FJASP
R32	ERJ6GEYJ101V	1/10W 100	1	MAIN
R33	ERDS2TJ101	1/4W 100	1	CPL
R33	ERDS2TJ563	1/4W 56K	1	FJASP
R34	ERDS2TJ101	1/4W 100	1	CPL
R34	ERDS2TJ682	1/4W 6.8K	1	FJASP
R35	ERDS2TJ101	1/4W 100	1	CPL
R35	ERDS2TJ332	1/4W 3.3K	1	FJASP
R35	ERJ6GEYJ105V	1/10W 1M	1	MAIN
R36	ERDS2TJ101	1/4W 100	1	CPL
R36	ERDS2TJ223	1/4W 22K	1	FJASP
R36	ERJ6GEYJ472V	1/10W 4.7K	1	MAIN
R37	ERDS2TJ101	1/4W 100	1	CPL
R37	ERDS2TJ223	1/4W 22K	1	FJASP
R38	ERDS2TJ563	1/4W 56K	1	FJASP
R39	ERDS2TJ682	1/4W 6.8K	1	FJASP
R39	ERJ6GEYJ222V	1/10W 2.2K	1	MAIN
R40	ERDS2TJ103	1/4W 10K	1	FJASP
R40	ERJ6GEYJ222V	1/10W 2.2K	1	MAIN
R41	ERDS2TJ222	1/4W 2.2K	1	FJASP
R41	ERJ6GEYJ222V	1/10W 2.2K	1	MAIN
R42	ERDS2TJ274	1/4W 270K	1	FJASP
R42	ERJ6GEYJ222V	1/10W 2.2K	1	MAIN
R43	ERDS2TJ182	1/4W 1.8K	1	FJASP
R43	ERJ6GEYJ101V	1/10W 100	1	MAIN
R44	ERDS2TJ274	1/4W 270K	1	FJASP
R44	ERJ6GEYJ103V	1/10W 10K	1	MAIN
R45	ERDS2TJ182	1/4W 1.8K	1	FJASP
R45	ERJ6GEYJ332V	1/10W 3.3K	1	MAIN
R46	ERDS2TJ184	1/4W 180K	1	FJASP
R47	ERDS2TJ272	1/4W 2.7K	1	FJASP
R47	ERJ6GEYJ102V	1/10W 1K	1	MAIN
R48	ERDS2TJ184	1/4W 180K	1	FJASP
R48	ERJ6GEYJ103V	1/10W 10K	1	MAIN
R49	ERDS2TJ681	1/4W 680	1	FJASP
R49	ERJ6GEYJ103V	1/10W 10K	1	MAIN
R50	ERDS2TJ394	1/4W 390K	1	FJASP

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R50	ERJ6GEYJ221V	1/10W 220	1	MAIN
R51	ERDS2TJ332	1/4W 3.3K	1	FJASP
R51	ERJ6GEYJ221V	1/10W 220	1	MAIN
R52	ERDS2TJ224	1/4W 220K	1	FJASP
R52	ERJ6GEYJ221V	1/10W 220	1	MAIN
R53	ERDS2TJ103	1/4W 10K	1	FJASP
R53	ERJ6GEYJ221V	1/10W 220	1	MAIN
R54	ERDS2TJ182	1/4W 1.8K	1	FJASP
R54	ERJ6GEYJ471V	1/10W 470	1	MAIN
R55	ERDS2TJ274	1/4W 270K	1	FJASP
R55	ERJ6GEYJ681V	1/10W 680	1	MAIN
R56	ERDS2TJ222	1/4W 2.2K	1	FJASP
R56	ERJ6GEYJ471V	1/10W 470	1	MAIN
R57	ERDS2TJ274	1/4W 270K	1	FJASP
R57	ERJ6GEYJ222V	1/10W 2.2K	1	MAIN
R58	ERDS2TJ272	1/4W 2.7K	1	FJASP
R59	ERDS2TJ184	1/4W 180K	1	FJASP
R60	ERDS2TJ182	1/4W 1.8K	1	FJASP
R61	ERDS2TJ184	1/4W 180K	1	FJASP
R62	ERDS2TJ681	1/4W 680	1	FJASP
R63	ERDS2TJ394	1/4W 390K	1	FJASP
R63	ERJ6GEYJ221V	1/10W 220	1	MAIN
R64	ERDS2TJ332	1/4W 3.3K	1	FJASP
R65	ERDS2TJ224	1/4W 220K	1	FJASP
R65	ERJ6GEYJ105V	1/10W 1M	1	MAIN
R66	ERDS2TJ223	1/4W 22K	1	FJASP
R66	ERJ6GEYJ103V	1/10W 10K	1	MAIN
R67	ERDS2TJ564	1/4W 560K	1	FJASP
R68	ERDS2TJ102	1/4W 1K	1	FJASP
R69	ERDS2TJ272	1/4W 2.7K	1	FJASP
R70	ER0S2TKF1001	2W 1K	1	FJASP
R71	ER0S2TKF1002	2W 1K	1	FJASP
R72	ER0S2TKF1001	2W 1K	1	FJASP
R73	ERDS2TJ272	1/4W 2.7K	1	FJASP
R74	ERD2FCVG101	100	1	FJASP⚠
R75	ERJ6GEYJ471V	1/10W 470	1	MAIN
R76	ERDS2TJ331	1/4W 330	1	FJASP
R76	ERJ6GEYJ102V	1/10W 1K	1	MAIN
R77,78	ERDS2TJ331	1/4W 330	2	FJASP
R79	ERD2FCVG101	100	1	FJASP⚠
R80	ERD2FCVJ4R7	4.7	1	FJASP⚠
R82	ERDS2TJ223	1/4W 22K	1	FJASP
R83	ERDS2TJ564	1/4W 560K	1	FJASP
R84	ERDS2TJ102	1/4W 1K	1	FJASP
R85	ERDS2TJ272	1/4W 2.7K	1	FJASP
R86	EROS2TKF1001	2W 1K	1	FJASP
R87	ERJ6GEYJ471V	1/10W 470	1	MAIN
R87	EROS2TKF1002	2W 1K	1	FJASP
R88	EROS2TKF1001	2W 1K	1	FJASP
R89	ERDS2TJ272	1/4W 2.7K	1	FJASP
R90	ERD2FCVG101	100	1	FJASP⚠
R91,92	ERDS2TJ331	1/4W 330	2	FJASP
R92	ERJ6GEYJ103V	1/10W 10K	1	MAIN

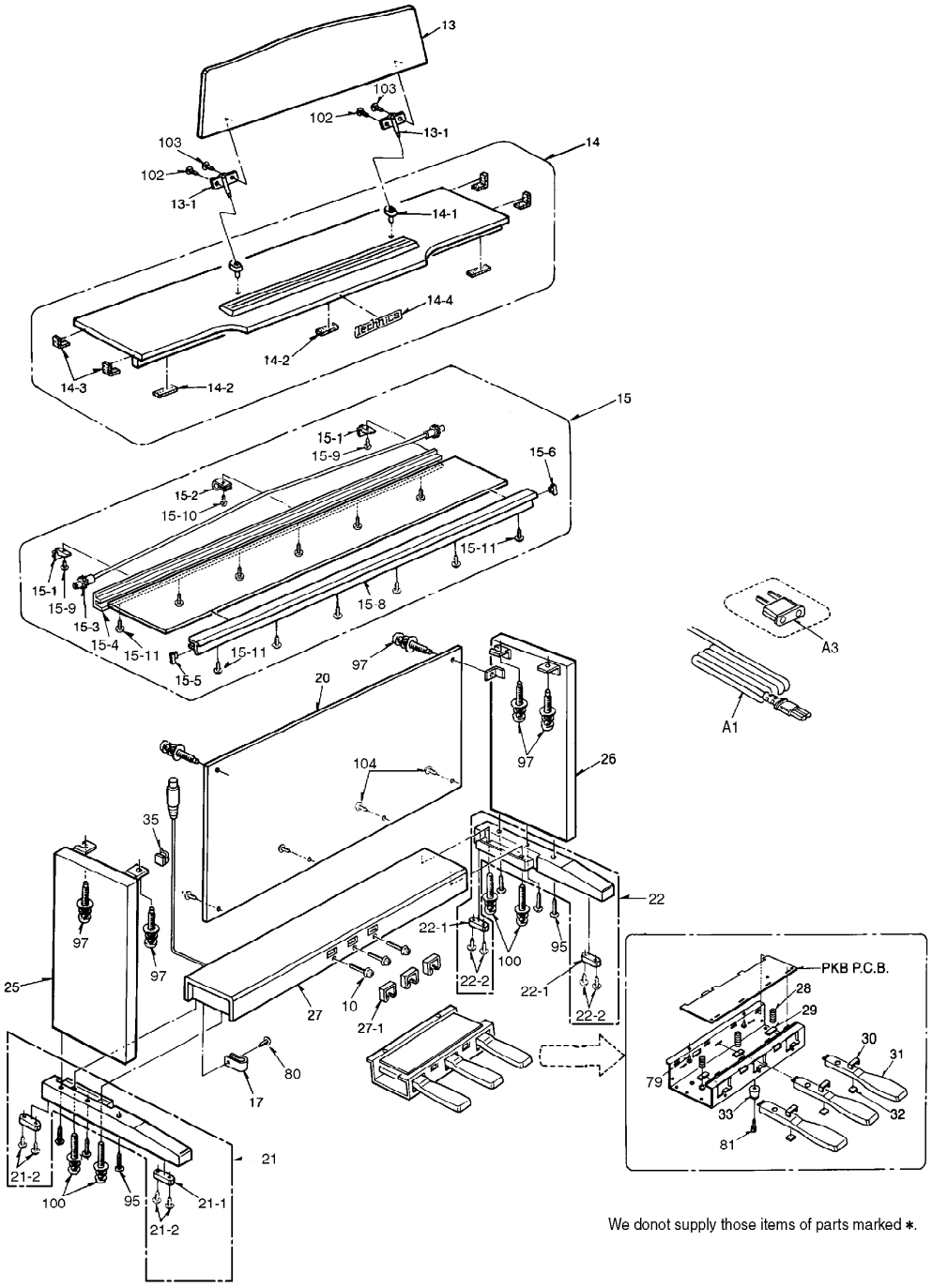
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R93	ERDS2TJ331	1/4W 330	1	FJASP
R93	ERJ6GEYJ101V	1/10W 100	1	MAIN
R94	ERD2FCVG101	100	1	FJASP⚠
R94	ERJ6GEY0R00V	1/10W 0	1	MAIN
R95	ERD2FCVJ4R7	4.7	1	FJASP⚠
R95	ERJ6GEYJ471V	1/10W 470	1	MAIN
R96,97	ERJ6GEYJ331V	1/10W 330	2	MAIN
R98	ERJ6GEYJ473V	1/10W 47K	1	MAIN
R99,00	ERDS2TJ681	1/4W 680	2	FJASP
R102	ERDS2TJ471	1/4W 470	1	FJASP
R102	ERJ6GEYJ123V	1/10W 12K	1	MAIN
R104	ERDS2TJ471	1/4W 470	1	FJASP
R104	ERJ6GEYJ123V	1/10W 12K	1	MAIN
R106	ERDS2TJ471	1/4W 470	1	FJASP
R106,07	ERJ6GEYJ104V	1/10W 100K	2	MAIN
R110	ERDS2TJ151	1/4W 150	1	FJASP
R111	ERDS2TJ330	1/4W 33	1	FJASP
R111,12	ERJ6GEYJ103V	1/10W 10K	2	MAIN
R113	ERDS2TJ221	1/4W 220	1	FJASP
R113	ERJ6GEYJ471V	1/10W 470	1	MAIN
R114	ERDS2TJ331	1/4W 330	1	FJASP
R114	ERJ6GEYJ471V	1/10W 470	1	MAIN
R115	ERQ14AJ2R0	2	1	FJASP⚠
R116	ERJ6GEYJ471V	1/10W 470	1	MAIN
R116	ERQ14AJ2R0	2	1	FJASP⚠
R117,18	ERJ6GEYJ471V	1/10W 470	2	MAIN
R200,01	ERJ6GEY0R00V	1/10W 0	2	MAIN
R202	ERJ6GEYJ221V	1/10W 220	1	MAIN
R204	ERJ6GEY0R00V	1/10W 0	1	MAIN
S1	QSPG1010AA	POWER SWITCH	1	
S1-S3	QSTGT001AA	SW	3	PKB
SP1,2	QASG14P02A	14CM,6Ω	2	
SW1	EVQ21507K	SW	1	CPR
SW1	QSRGT005AA	SW	1	FJASP⚠
SW1	QSSGT014AA	SW	1	COM
SW2	EVQ21507K	SW	1	CPR
SW9,10	EVQ21507K	SW	2	CPR
SW17,18	EVQ21507K	SW	2	CPR
SW25,26	EVQ21507K	SW	2	CPR
SW33,34	EVQ21507K	SW	2	CPR
SW41,42	EVQ21507K	SW	2	CPR
SW49	EVQ21507K	SW	1	CPR
SW59,60	EVQ21507K	SW	2	CPL
SW66-68	EVQ21507K	SW	3	CPL
SW73-76	EVQ21507K	SW	4	CPL
SW81	EVQ21507K	SW	1	CPL
SW84	EVQ21507K	SW	1	CPL
SW89	EVQ21507K	SW	1	CPL
T1	QTPG1M022A	POWER TRANSFORMER	1	P,PC,PY⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
T1	QTPG1M025A	POWER TRANSFORMER	1	EX,EB,EZ,EG,X,GN,XS,XT⚠
T1	QTPG1M025A	POWER TRANSFORMER	1	XD,XA⚠
VR2	QRVG25P01B53	V.R.,VOLUME	1	
W1	QJLG013AA	PEDAL CORD	1	
W2	QEXGST16060B	WIRE WITH CONNECTOR	1	
W3	QEXGVH03105B	WIRE WITH CONNECTOR	1	
W4	QEXGSS16022C	WIRE WITH CONNECTOR	1	
W5	QEXGSS05028A	WIRE WITH CONNECTOR	1	
W6	QEXGSS06030B	WIRE WITH CONNECTOR	1	
W7	QEXGSS07010A	WIRE WITH CONNECTOR	1	
W8	QEXGSS12010A	WIRE WITH CONNECTOR	1	
W9	QEXGSS10015A	WIRE WITH CONNECTOR	1	
W10	QEXGSS06105A	WIRE WITH CONNECTOR	1	
W11	QEXGVH02055C	WIRE WITH CONNECTOR	1	
W12	QEXGVH02040B	WIRE WITH CONNECTOR	1	
X1	EFOMC4004T5	OSCILLATOR	1	CPL
X1	QSXG2F2400A	24MHZ CERAMIC OSCILLATOR	1	MAIN
X2	QSXG2FR614DA	614KHZ CERAMIC OSCILLATOR	1	MAIN
X3	QSXG2F0100DA	1MHZ CERAMIC OSCILLATOR	1	MAIN
X4	QSXG1A1128A	11.28MHZ CERAMIC OSCILLAT	1	MAIN
Z1-Z9	EXBV8V101J	100 Ω ×4	9	MAIN
Z11	EXBV8V103J	10K Ω ×4	1	MAIN
Z12-21	EXBV8V471J	470 Ω ×4	10	MAIN
Z32	EXBV8V331J	330 Ω ×4	1	MAIN
Z34-36	EXBS8V471J	470 Ω ×4	3	MAIN
Z37,38	EXBV8V472J	4.7K Ω ×4	2	MAIN
Z40	EXBV8V223J	22K Ω ×4	1	MAIN

20. Cabinet Parts Location

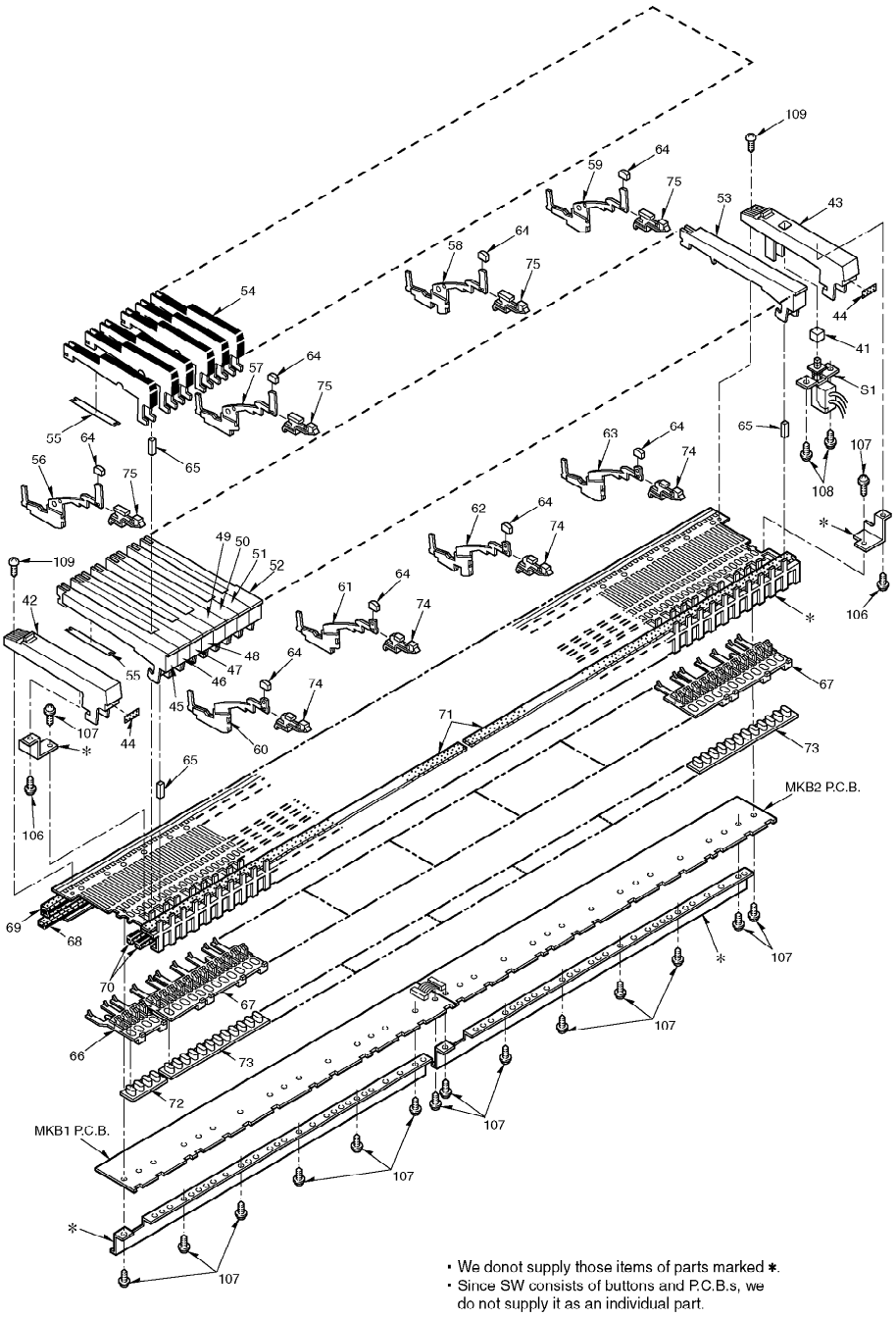


- We donot supply those items of parts marked *.
- Since SW consists of buttons and P.C.B.s, we do not supply it as an individual part.

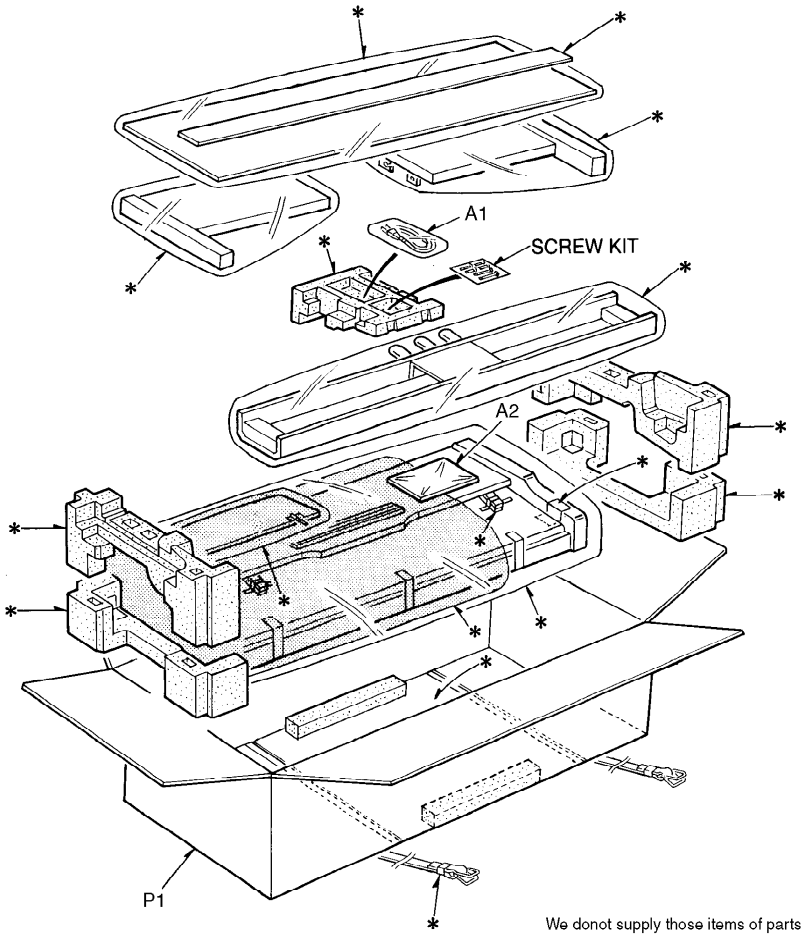


We donot supply those items of parts marked ∗.

21. Manual Keyboard Parts Location


MKB2 P.C.B.
MKB1 P.C.B.
S1
• We donot supply those items of parts marked ✻.
• Since SW consists of buttons and P.C.B.s, we do not supply it as an individual part.

22. Packaging



We donot supply those items of parts marked *.

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BRILLIANCE

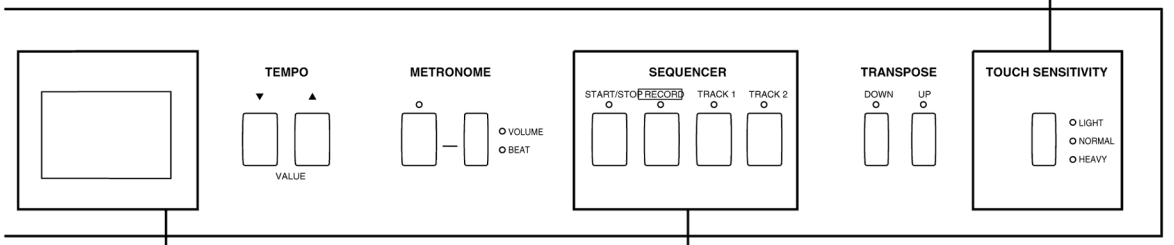
The **BRILLIANCE** allows you to select the brightness of the sound from 5 settings.
If either of the buttons is pressed once, the current setting value will appear on the display, and it can then be changed.
Pressing the **BRIGHT** button increases the brightness; when the **MELLOW** button is pressed, the sound becomes mellower. During setting the brightness is shown on the display (Ä2 to 2).

- Press both buttons at the same time to return the brightness to 0.
- A short time after the setting is completed, the display will return to the turned-off condition.
- If the **BRILLIANCE** has been set to a number other than 0, one of the indicators remains lit.

TOUCH SENSITIVITY

The keyboard touch (Touch Response) can be changed to match your type of playing.

- Choose from **LIGHT**, **NORMAL** and **HEAVY**.



Display

The display shows a variety of different setting values, and also the **SEQUENCER** and **METRONOME** tempos.

- During normal playing, it is turned off.

SEQUENCER

Record your performance and have it automatically played back.

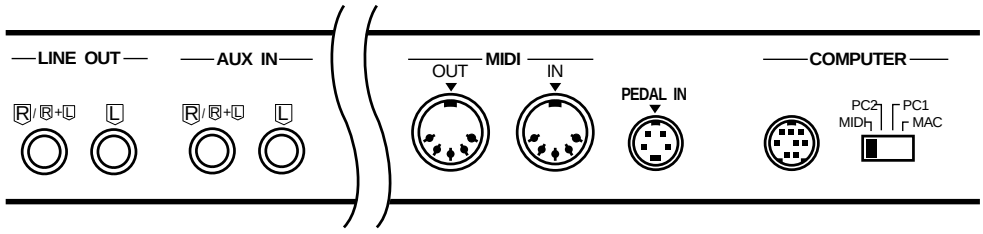
Sustain pedal

The right pedal allows you to use sustain. When a key is released while this pedal is depressed, the sound is sustained so that it lingers and slowly fades out.

- String resonance is added to some sounds.

Setting the effects for each sound
The **DIGITAL EFFECT**, **BRILLIANCE** and **DIGITAL REVERB** are stored independently for each sound. When a **SOUND** button is pressed, the effect settings for the selected sound are recalled.

(On the back of piano)

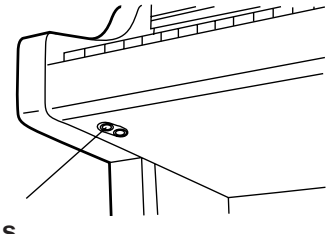


PEDAL IN
Connect the cord from the included stand to this terminal.

AUX IN (input level 0.5 Vrms, 6 kΩ)
Other instruments such as a rhythm machine or sound module can be connected to the piano so that the sound is output from the piano. To receive monaural sound, connect instruments to the **R/R+L** terminal.

LINE OUT (output level 1.5 Vrms, 600 Ω)
By plugging into a high-power amplifier, the sound can be reproduced at high volume. (Use the **R/R+L** terminal when outputting monaural sound. However, there are some cases where the sound quality may deteriorate depending on the sound.)

HEADPHONES (phones) ×2
(Beneath the keyboard, on the left side)
For silent practice headphones may be used. When plugged in, the speaker system is automatically switched off, and sound is heard only through the headphones.



phones

COMPUTER
By connecting this terminal to the serial port of a computer, performance data can be exchanged. Use the switch to select the type of computer.

- Be sure that the power to this instrument is turned off when connecting to a computer or when changing the switch setting.
- The new switch setting will be effective when the power is turned on again.

Caution: Failure to turn off the power before changing the switch setting may result in malfunction.

- When no computer is connected, or when a MIDI interface is used, the switch should be set to **MIDI**.

Connection to a Macintosh series computer
Use an ACCESSORY CABLE (SZ-JJAP1, sold separately) to connect the **COMPUTER** terminal of this instrument to the modem port or printer port of a Macintosh Series computer. Set the switch to **MAC**.

- Set the MIDI interface clock of the Macintosh software to 1 MHz.
- Do not remove the core at either end of the cable.

Connection to a PC
Use an ACCESSORY CABLE (SZ-JJAT1, sold separately) to connect the **COMPUTER** terminal of this instrument to the RS232C terminal of a PC. Set the switch to **PC2**.

- The MIDI driver included with the cable should be installed in the computer. (Refer to the manual accompanying the cable.)
- Do not remove the core at either end of the cable.

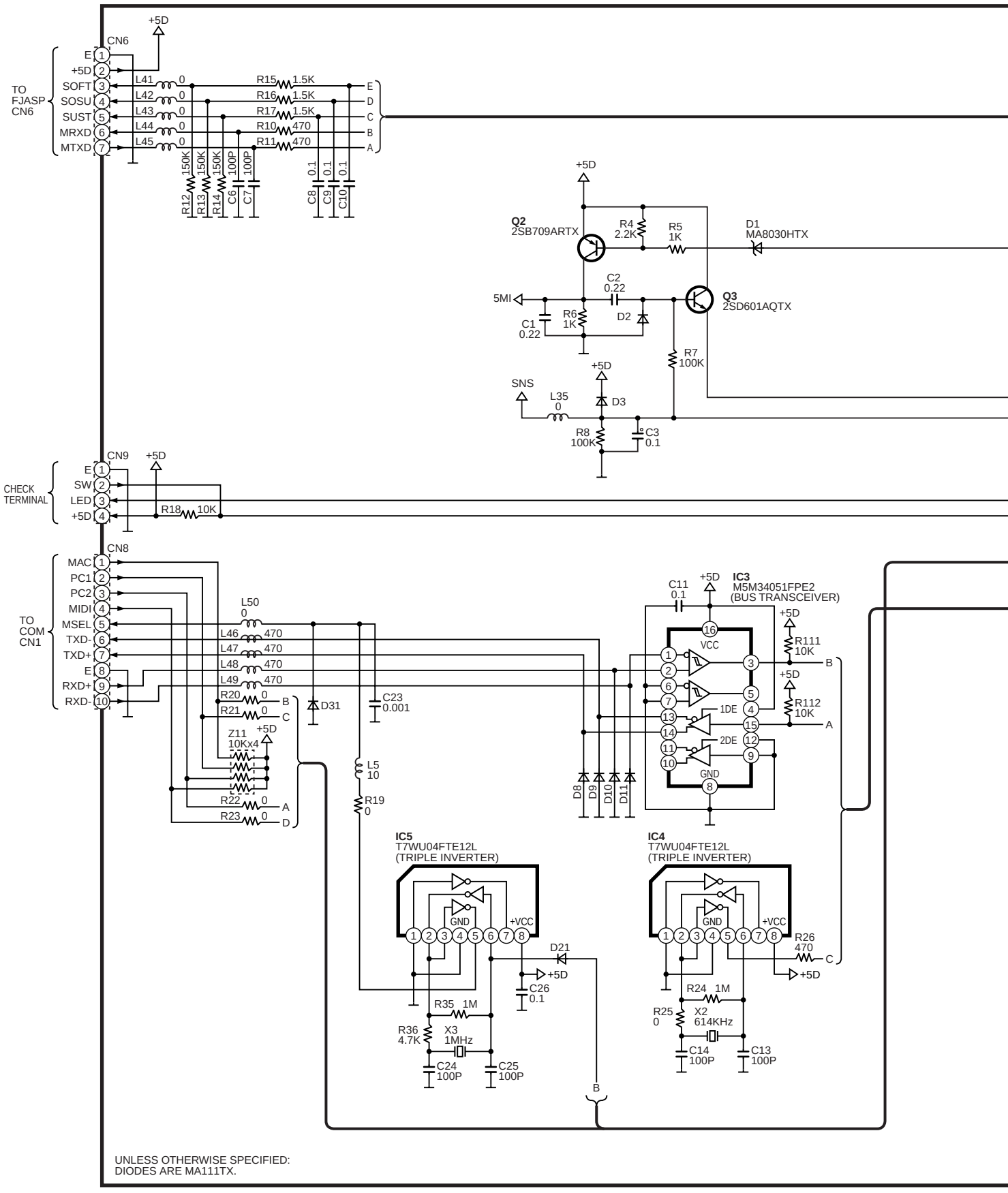
* All product and company names are trademarks or registered trademarks of their respective owners.

Digital piano

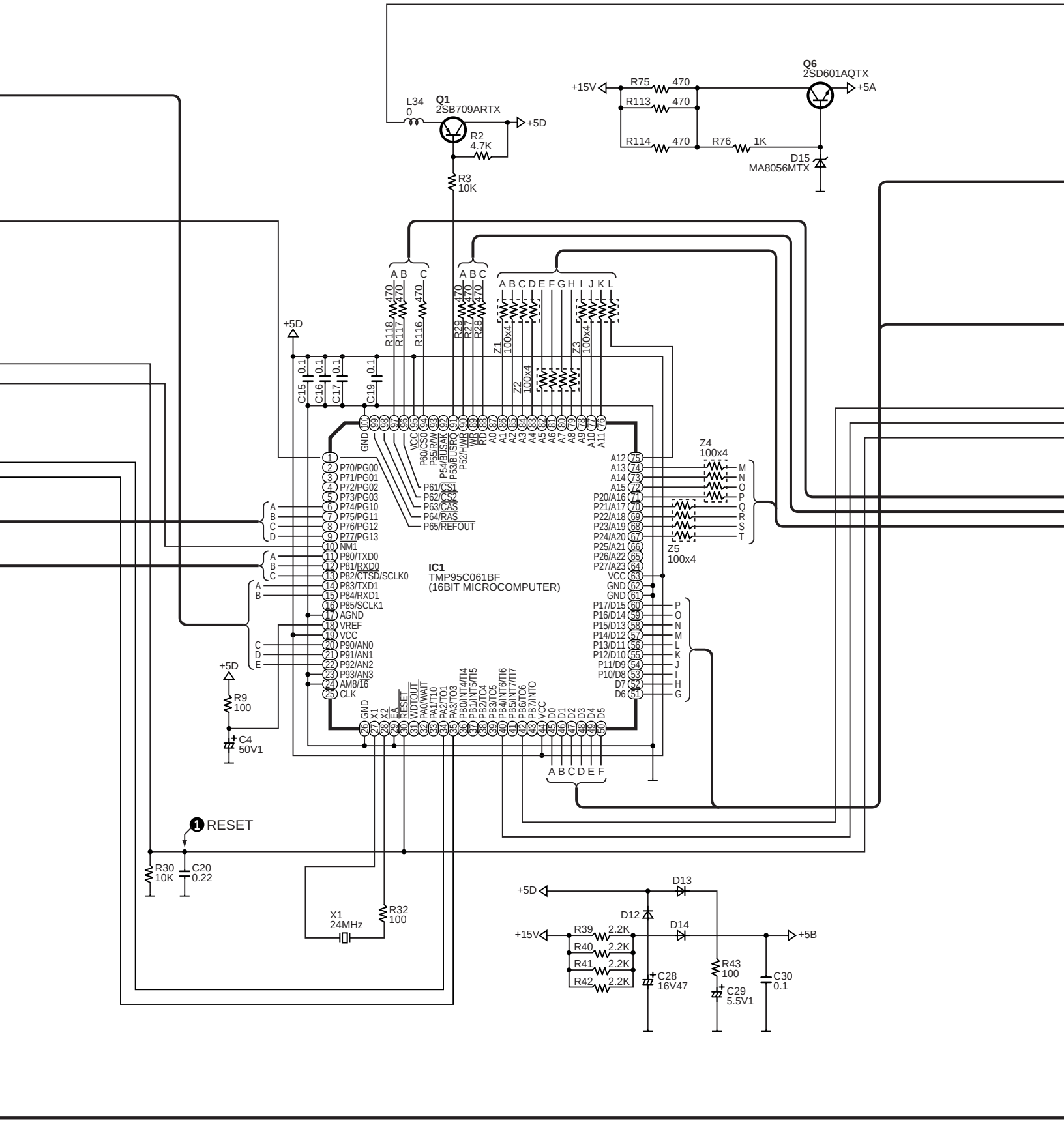
Function		Transmitted	Recognized	Remarks
Basic	Default	1–16	1–16	memorized
Channel	Changed	1–16	1–16	
	Default	3	1, 3	memorized
Mode	Messages	×	×	
	Altered	–	–	
Note		*21–108	0–127	
Number	True voice	–	*0–127	
Velocity	Note ON	○	○	
	Note OFF	× (9nH: V=0)	×	
After	Key's	×	×	
Touch	Ch's	×	×	
Pitch Bend		×	○	
	01	×	**○	modulation
	06,38	×	**○	data entry
	07	×	**○	volume (part)
	10	×	**○	pan
Control	11	×	**○	part expression
Change	64	○×	○×	sustain pedal
	66	○×	○×	sostenuto pedal
	67	○×	○×	soft pedal
	91	×	**○	reverb depth
	93	○×	○×	digital effect
	98, 99	×	**○	NRPN LSB, MSB
	100,101	×	**○	RPN LSB, MSB
Prog		○×	○×	
Change	True #	0–127	0– 7	
System Exclusive		×	×	
System	Song Pos	×	×	
	Song Sel	×	×	
Common	Tune	×	×	
System	Clock	×	×	
Real Time	Commands	×	×	
Aux	Local ON/OFF	×	○	
	All Notes OFF	×	○	
Messages	Active Sense	○	○	
	Reset	×	×	
Notes		○× .....Whether or not the data for each of these items is transmitted or received can be set. * Changes depending on the **TRANSPOSE** setting. ** Effective only in the MULTI TIMBRE mode.		

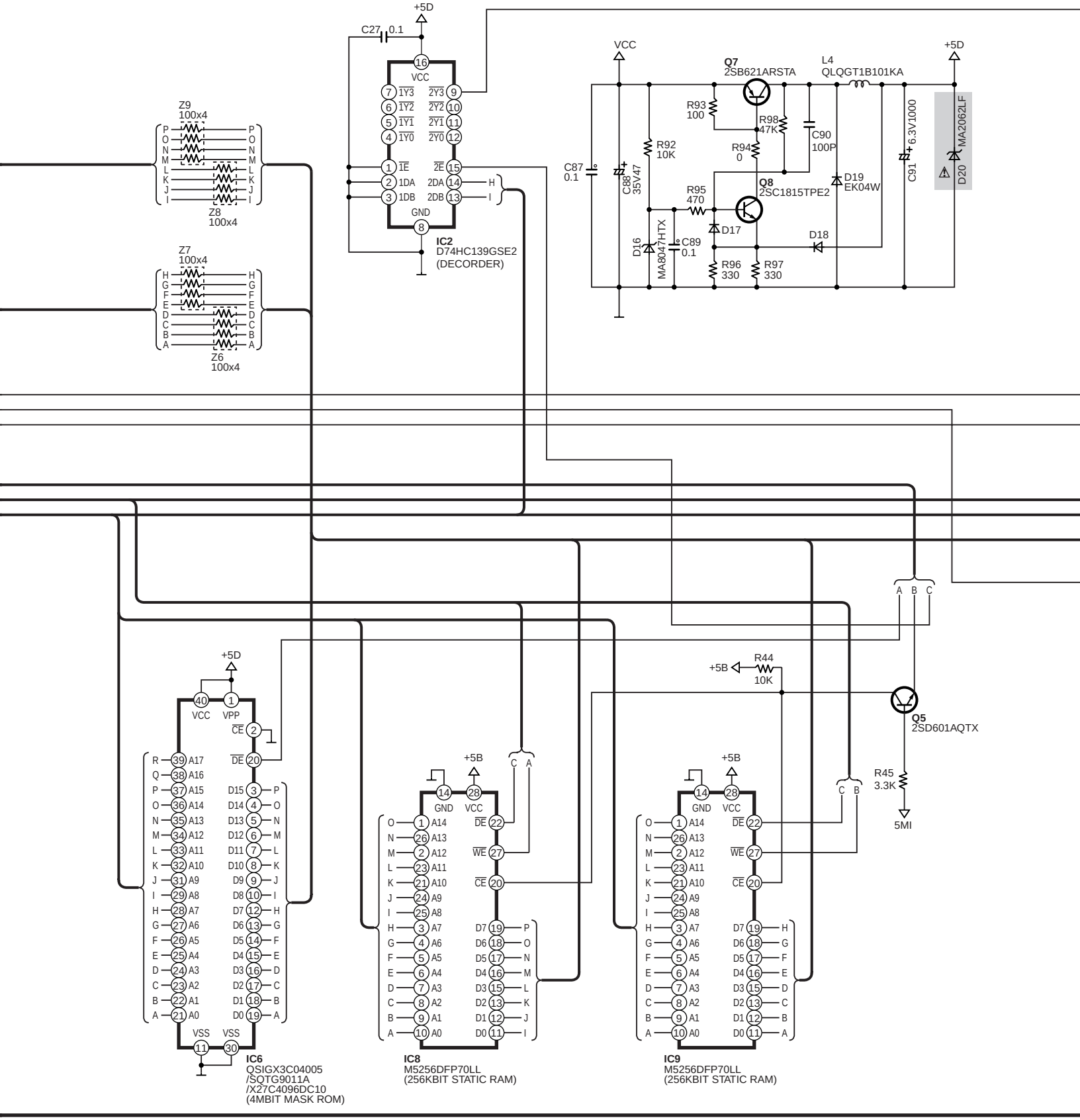
Mode 1: OMNI ON, POLY **Mode 2:** OMNI ON, MONO ○ : Yes
Mode 3: OMNI OFF, POLY **Mode 4:** OMNI OFF, MONO × : No

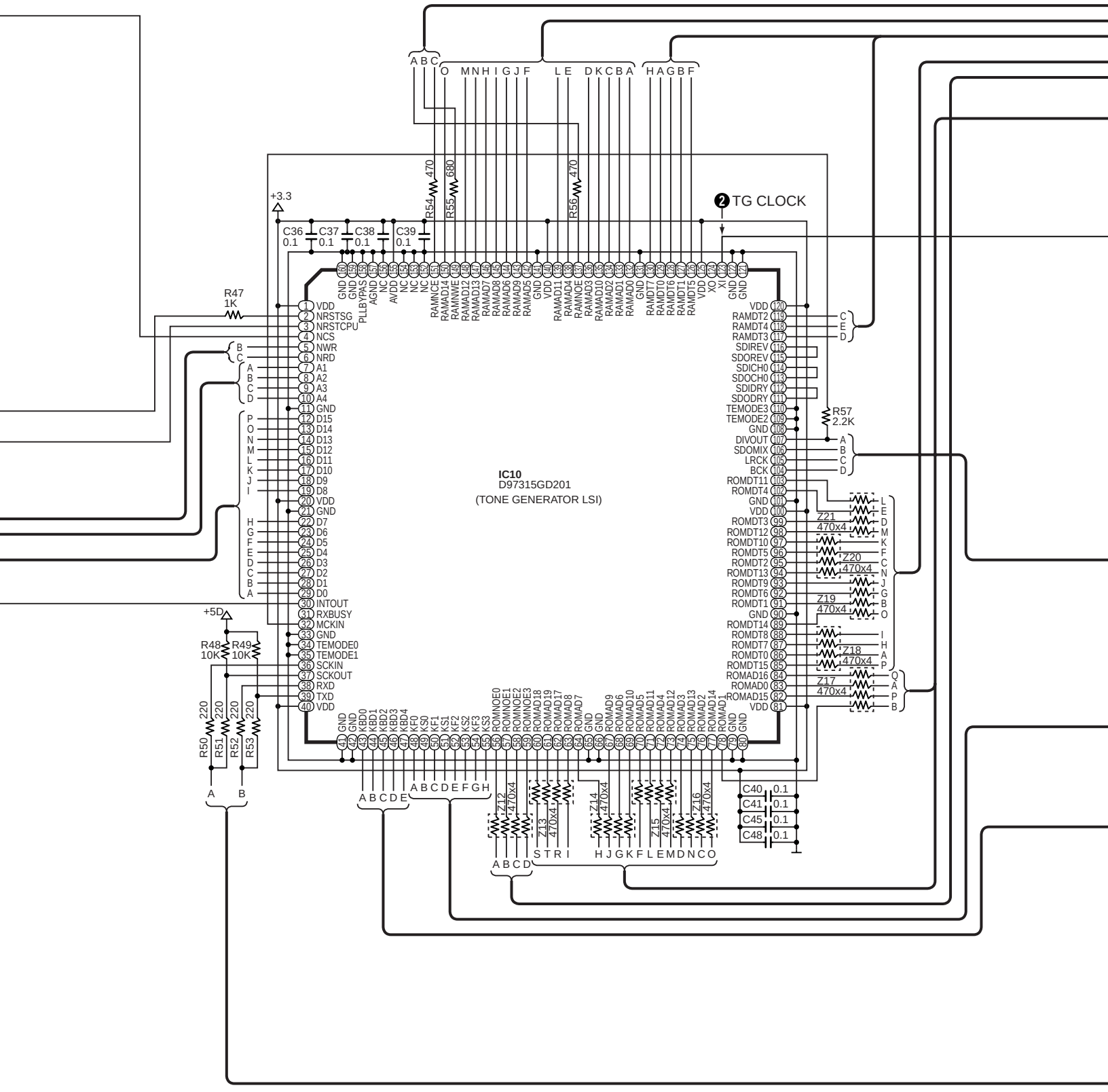
A MAIN CIRCUIT

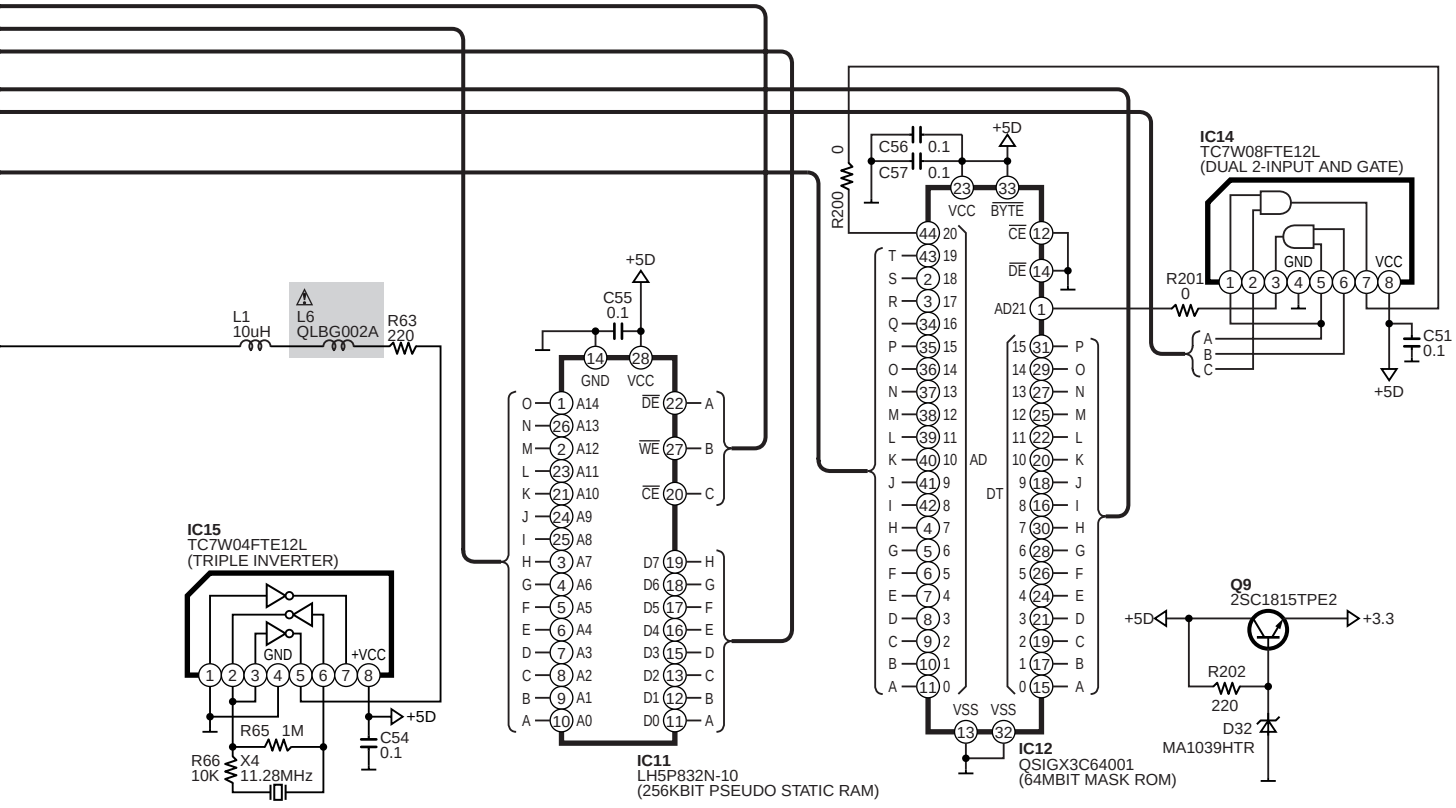


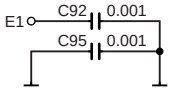
UNLESS OTHERWISE SPECIFIED:
DIODES ARE MA111TX.

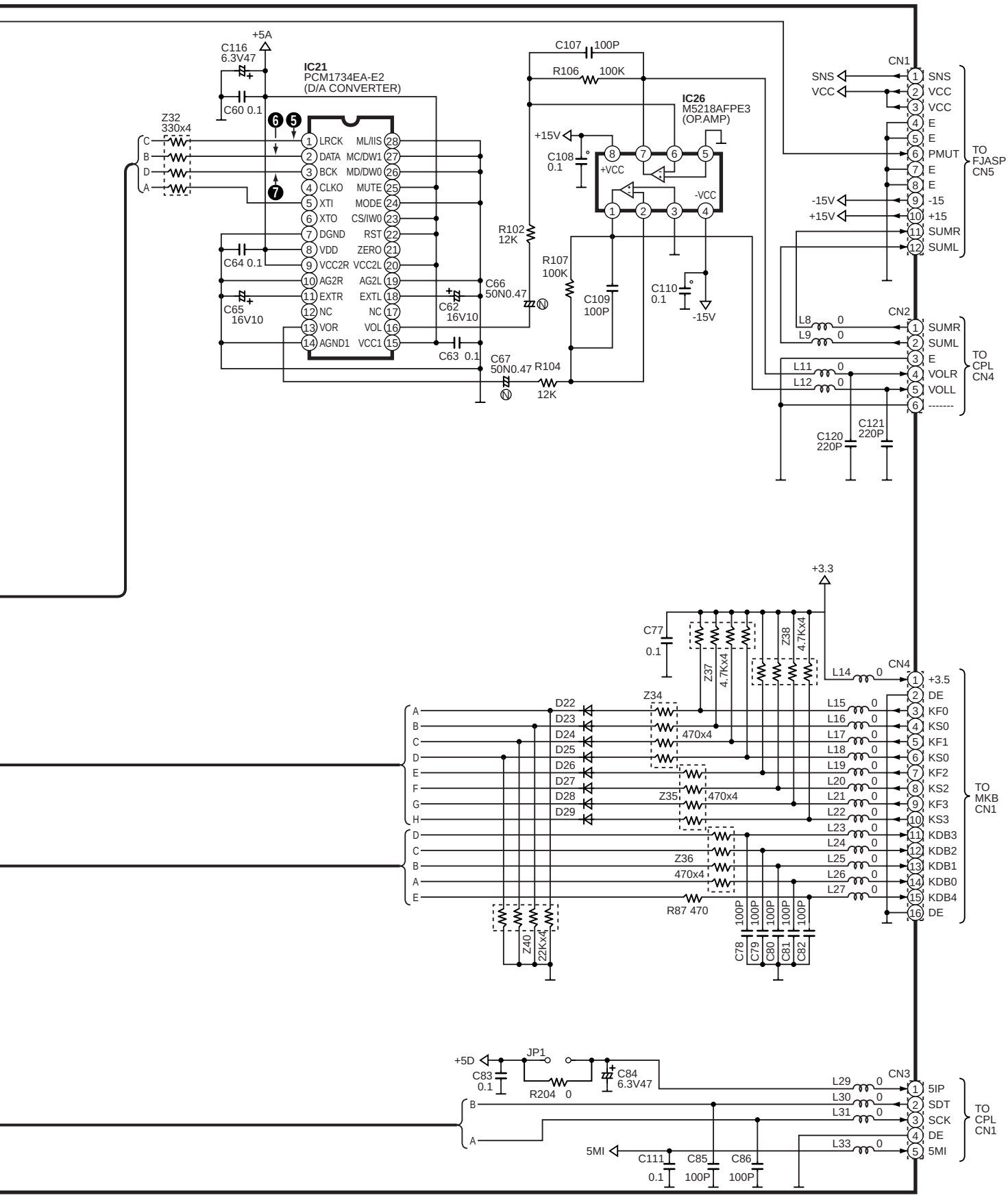

Q6
2SD601AQTX
+15V
R75 470
+5A
R113 470
R114 470
R76 1K
D15
MA8056MTX
L34
0
Q1
2SB709ARTX
+5D
R2
4.7K
R3
10K
R118 470
R117 470
R116 470
R29 470
R27 470
R28 470
Z1 100x4
Z2 100x4
Z3 100x4
C15 0.1
C16 0.1
C17 0.1
C19 0.1
GND
VCC
P60/CS0
P55/R/W
P54/BUSAK
P53/BUSRQ
P52/HWR
WR
RD
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
P70/PG00
P71/PG01
P72/PG02
P73/PG03
P74/PG10
P75/PG11
P76/PG12
P77/PG13
NM1
P80/TXD0
P81/RXD0
P82/CTSD/SCLK0
P83/TXD1
P84/RXD1
P85/SCLK1
AGND
VREF
VCC
P90/AN0
P91/AN1
P92/AN2
P93/AN3
AM8/16
CLK
P61/CS1
P62/CS2
P63/CAS
P64/RAS
P65/REFOUT
IC1
TMP95C061BF
(16BIT MICROCOMPUTER)
Z4
100x4
Z5
100x4
A12
A13
A14
A15
P20/A16
P21/A17
P22/A18
P23/A19
P24/A20
P25/A21
P26/A22
P27/A23
VCC
GND
GND
P17/D15
P16/D14
P15/D13
P14/D12
P13/D11
P12/D10
P11/D9
P10/D8
D7
D6
+5D
R9
100
C4
50V1
GND
X1
X2
EA
RESET
WDTOUT
PA0/WAIT
PA1/TI10
PA2/TO1
PA3/TO3
PB0/INT4/TI4
PB1/INT5/TI5
PB2/TO4
PB3/TO6
PB4/INT6/TI6
PB5/INT7/TI7
PB6/TO6
PB7/INTO
VCC
D0
D1
D2
D3
D4
D5
RESET
R30
10K
C20
0.22
X1
24MHz
R32
100
D13
D12
D14
+5D
+15V
+5B
R39 2.2K
R40 2.2K
R41 2.2K
R42 2.2K
C28
16V47
R43
100
C29
5.5V1
C30
0.1


Z9
100x4
Z8
100x4
Z7
100x4
Z6
100x4
+5D
C27 0.1
VCC
1Y3 2Y3
1Y2 2Y2
1Y1 2Y1
1Y0 2Y0
1E 2E
1DA 2DA
1DB 2DB
GND
IC2
D74HC139GSE2
(DECORDER)
VCC
Q7
2SB621ARSTA
L4
QLQGT1B101KA
+5D
R93
100
R98
47K
C90
100P
R92
10K
R94
0
C87
0.1
C88
35V47
R95
470
Q8
2SC1815TPE2
D19
EK04W
C91
6.3V1000
D20
MA2062LF
D17
D16
MA8047HTX
C89
0.1
D18
R96
330
R97
330
A B C
+5D
VCC VPP
CE
DE
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
A17 A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1 A0
VSS VSS
IC6
QSIGX3C04005
/SQTG9011A
/X27C4096DC10
(4MBIT MASK ROM)
+5B
R44
10K
Q5
2SD601AQTX
R45
3.3K
5MI
+5B
GND VCC
C A
DE
WE
CE
IC8
M5256DFP70LL
(256KBIT STATIC RAM)
+5B
GND VCC
C B
IC9
M5256DFP70LL
(256KBIT STATIC RAM)


IC10
D97315GD201
(TONE GENERATOR LSI)
+3.3
+5D
2 TG CLOCK
C36 0.1
C37 0.1
C38 0.1
C39 0.1
R47 1K
R48 10K
R49 10K
R50 220
R51 220
R52 220
R53 220
R54 470
R55 680
R56 470
R57 2.2K
C40 0.1
C41 0.1
C45 0.1
C48 0.1
Z21 470x4
Z20 470x4
Z19 470x4
Z18 470x4
Z17 470x4
Z12 470x4
Z13 470x4
Z14 470x4
Z15 470x4
Z16 470x4
1 VDD
2 NRSTSG
3 NRSTCPU
4 NCS
5 NWR
6 NRD
7 A1
8 A2
9 A3
10 A4
11 GND
12 D15
13 D14
14 D13
15 D12
16 D11
17 D10
18 D9
19 D8
20 VDD
21 GND
22 D7
23 D6
24 D5
25 D4
26 D3
27 D2
28 D1
29 D0
30 INTOUT
31 RXBUSY
32 MCKIN
33 GND
34 TEMODE0
35 TEMODE1
36 SCKIN
37 SCKOUT
38 RXD
39 TXD
40 VDD
120 VDD
119 RAMDT2
118 RAMDT4
117 RAMDT3
116 SDIREV
115 SDOREV
114 SDICH0
113 SDOCH0
112 SDIDRY
111 SDODRY
110 TEMODE3
109 TEMODE2
108 GND
107 DIVOUT
106 SDOMIX
105 LRCK
104 BCK
103 ROMDT11
102 ROMDT4
101 GND
100 VDD
99 ROMDT3
98 ROMDT12
97 ROMDT10
96 ROMDT5
95 ROMDT2
94 ROMDT13
93 ROMDT9
92 ROMDT6
91 ROMDT1
90 GND
89 ROMDT14
88 ROMDT8
87 ROMDT7
86 ROMDT0
85 ROMDT15
84 ROMAD16
83 ROMAD0
82 ROMAD15
81 VDD

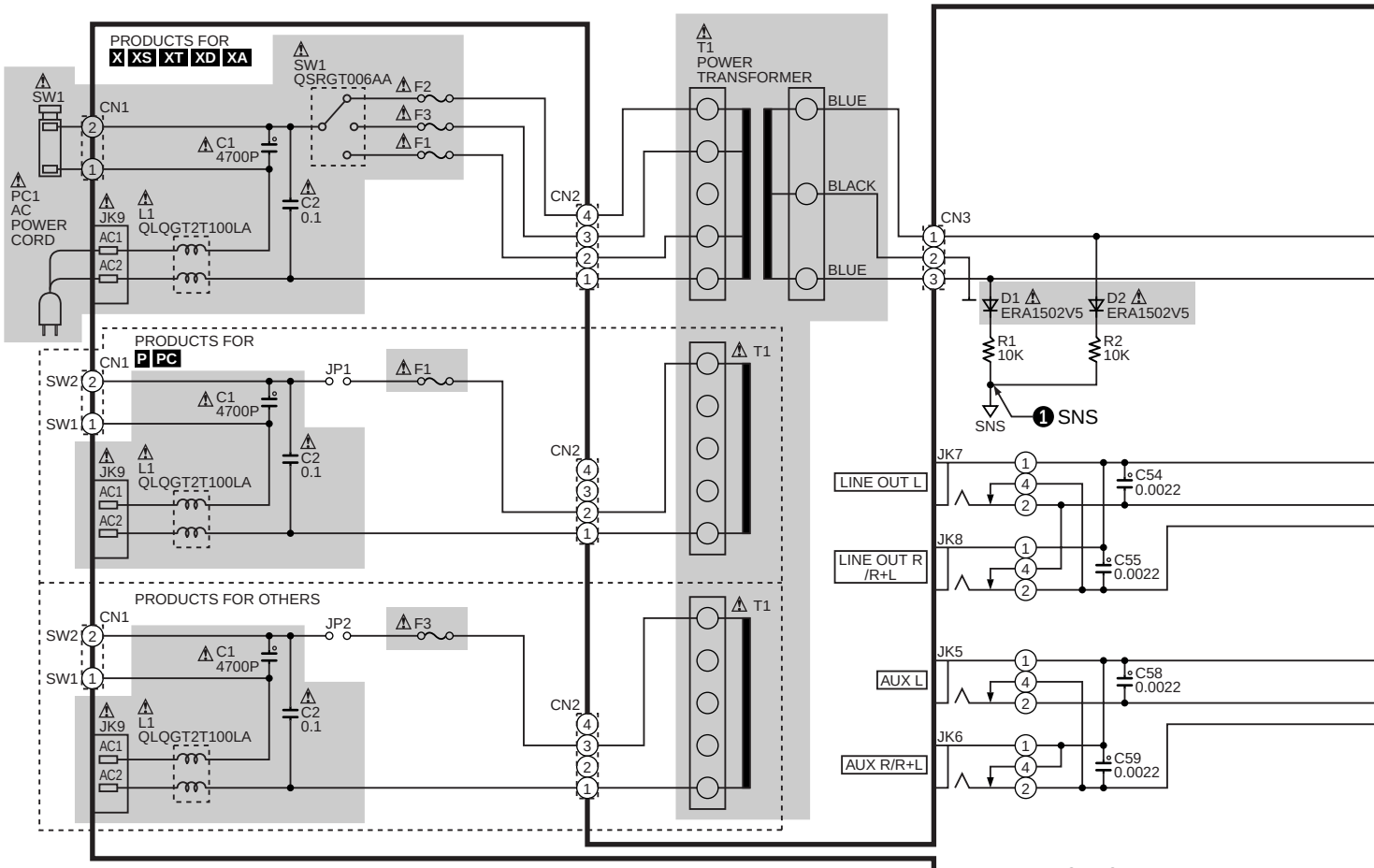

L1
10uH
L6
QLBG002A
R63
220
+5D
C55
0.1
GND
VCC
IC11
LH5P832N-10
(256KBIT PSEUDO STATIC RAM)
IC15
TC7W04FTE12L
(TRIPLE INVERTER)
GND
+VCC
R65 1M
R66
10K
X4
11.28MHz
C54
0.1
R200
0
C56
0.1
C57
0.1
VCC
BYTE
AD21
AD
DT
VSS
IC12
QSIGX3C64001
(64MBIT MASK ROM)
IC14
TC7W08FTE12L
(DUAL 2-INPUT AND GATE)
R201
0
C51
0.1
Q9
2SC1815TPE2
+3.3
R202
220
D32
MA1039HTR


E1
C92
0.001
C95
0.001

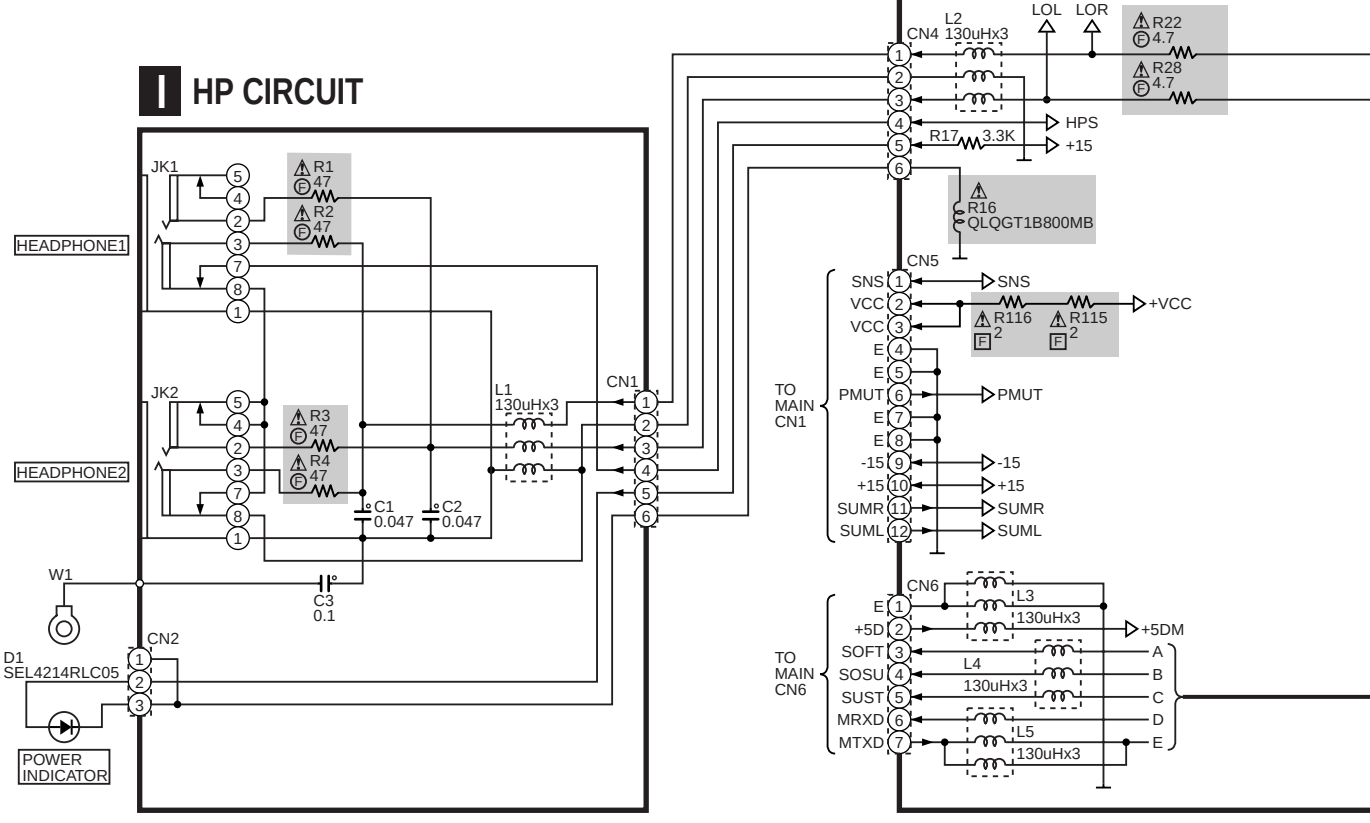

+5A
C116 6.3V47
C60 0.1
IC21
PCM1734EA-E2
(D/A CONVERTER)
Z32 330x4
LRCK ML/IIS
DATA MC/DW1
BCK MD/DW0
CLKO MUTE
XTI MODE
XTO CS/IW0
DGND RST
VDD ZERO
VCC2R VCC2L
AG2R AG2L
EXTR EXTL
NC NC
VOR VOL
AGND1 VCC1
C64 0.1
C65 16V10
C62 16V10
C63 0.1
C66 50N0.47
C67 50N0.47
C107 100P
R106 100K
IC26
M5218AFPE3
(OP.AMP)
+15V
C108 0.1
+VCC
-VCC
R102 12K
R107 100K
C109 100P
C110 0.1
-15V
R104 12K
CN1
SNS
VCC
VCC
E
E
PMUT
E
E
-15
+15
SUMR
SUML
TO FJASP CN5
CN2
L8 0
L9 0
L11 0
L12 0
SUMR
SUML
E
VOLR
VOLL

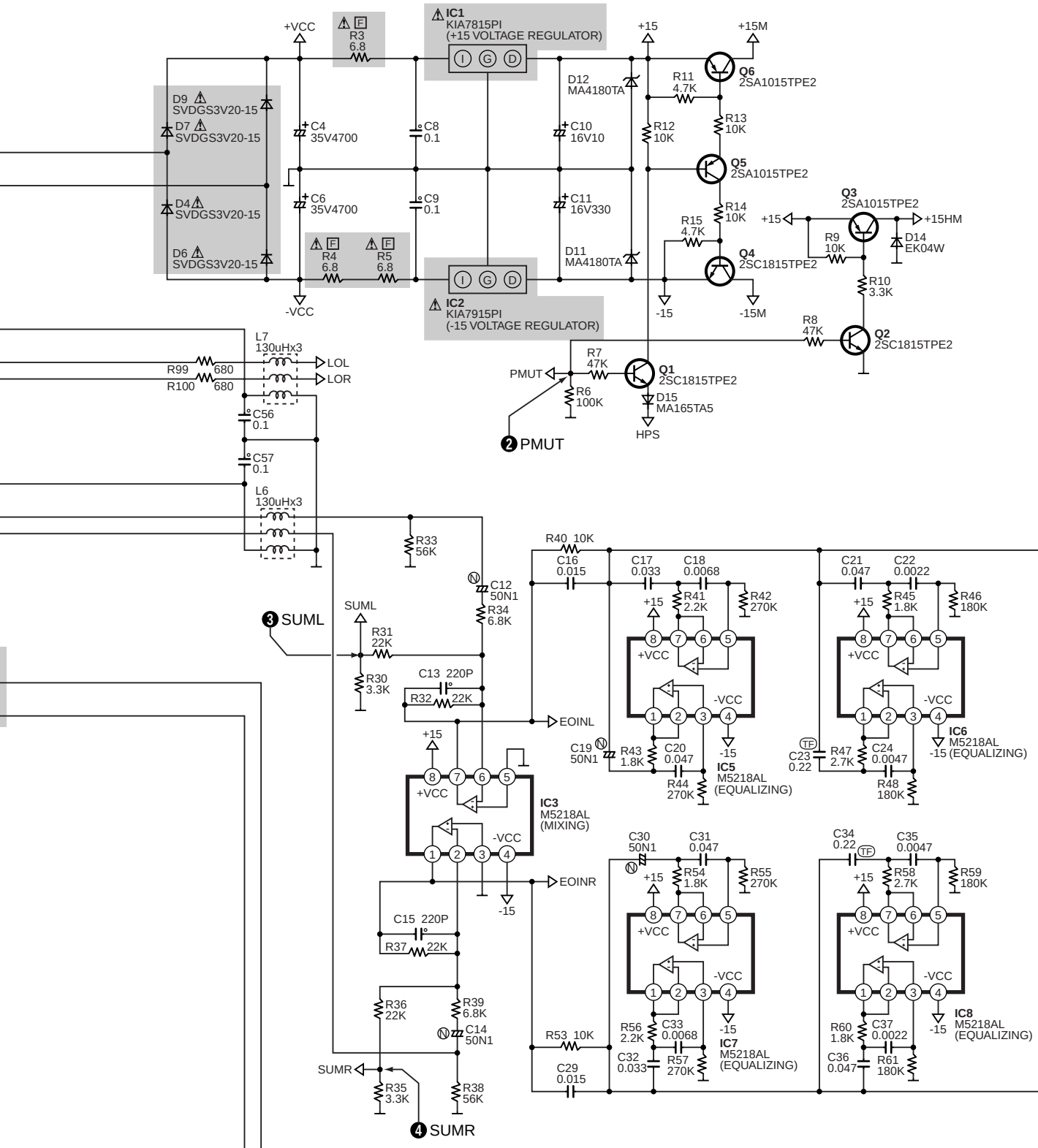
TO CPL CN4
C120 220P
C121 220P
+3.3
C77 0.1
Z37 4.7Kx4
Z38 4.7Kx4
CN4
L14 0
+3.5
DE
KF0
KS0
KF1
KS0
KF2
KS2
KF3
KS3
KDB3
KDB2
KDB1
KDB0
KDB4
DE
TO MKB CN1
D22
D23
D24
D25
D26
D27
D28
D29
Z34 470x4
Z35 470x4
Z36 470x4
R87 470
Z40 22Kx4
100P
C78
C79
C80
C81
C82
+5D
JP1
C83 0.1
R204 0
C84 6.3V47
CN3
L29 0
L30 0
L31 0
L33 0
5IP
SDT
SCK
DE
5MI
TO CPL CN1
5MI
C111 0.1
C85 100P
C86 100P

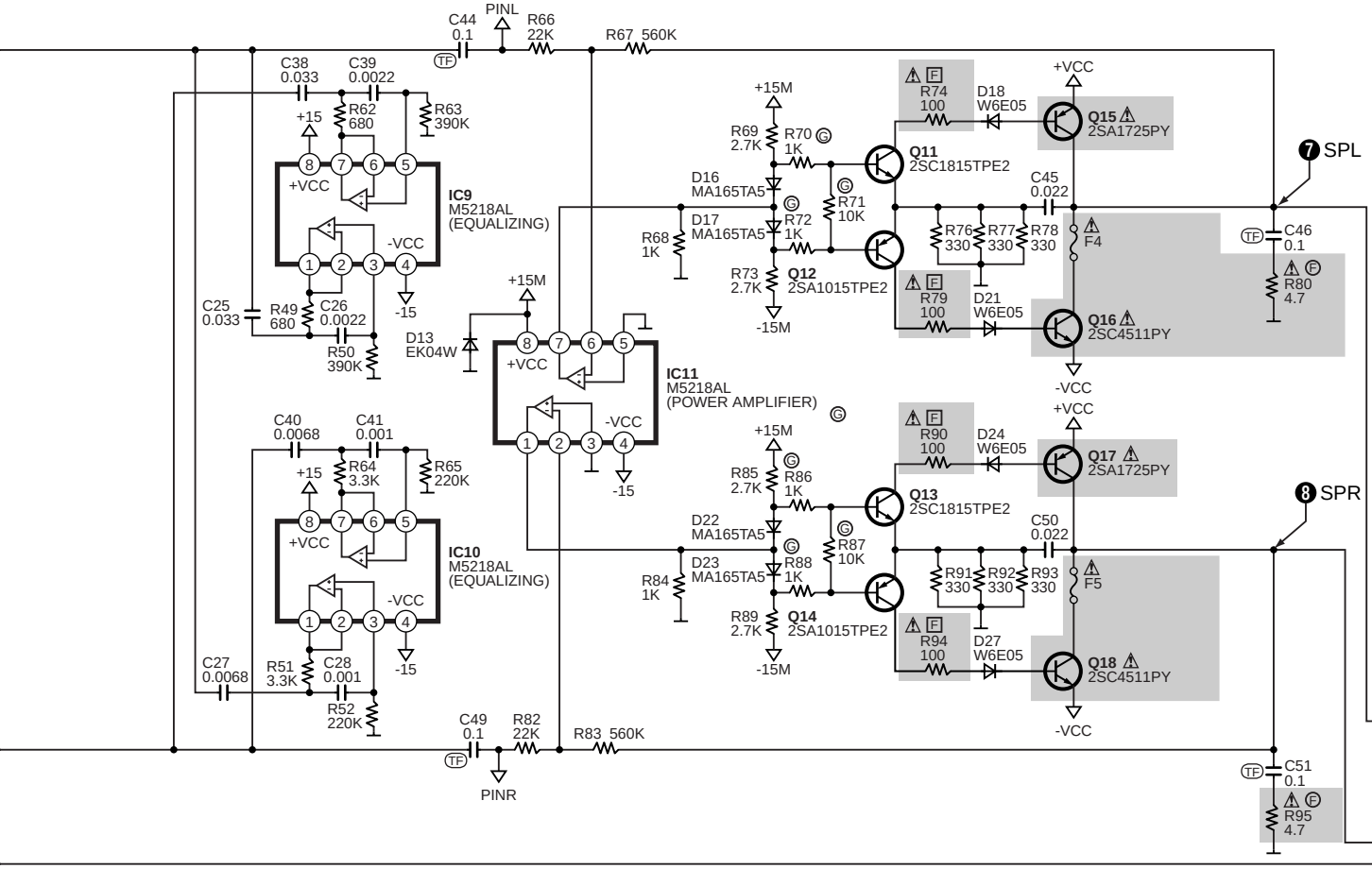
B FJASP CIRCUIT

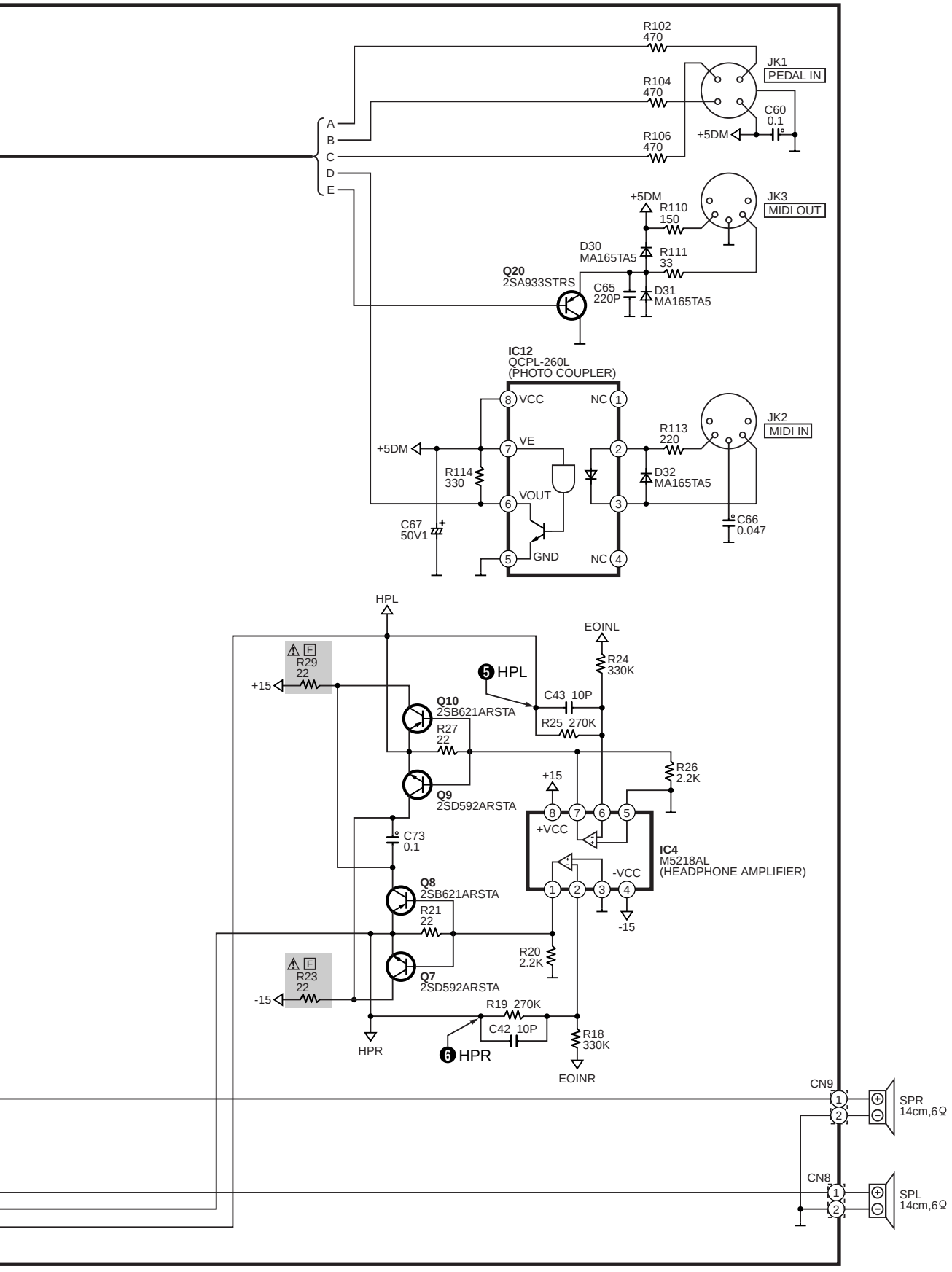


I HP CIRCUIT

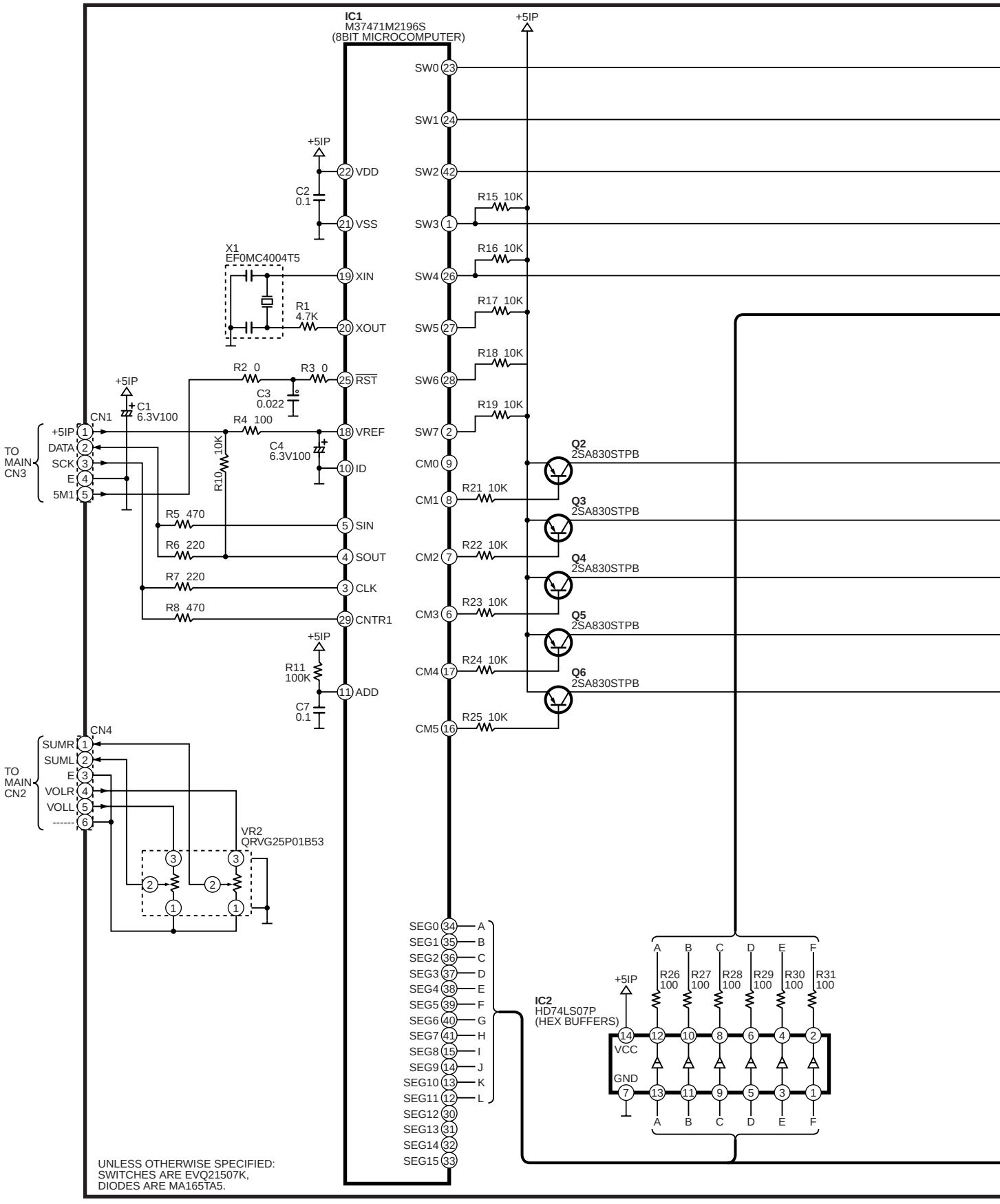


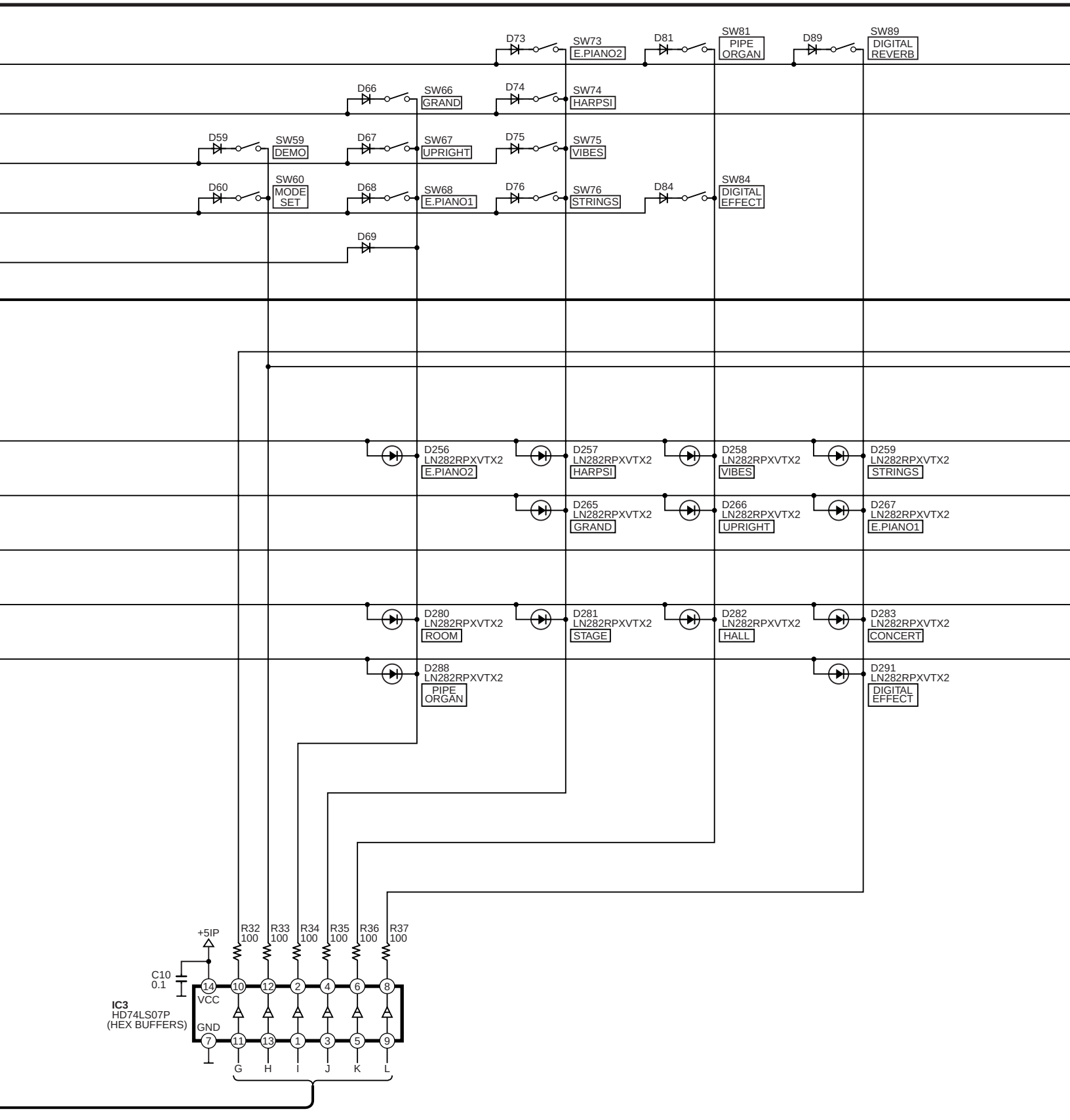

IC1
KIA7815PI
(+15 VOLTAGE REGULATOR)
IC2
KIA7915PI
(-15 VOLTAGE REGULATOR)
+VCC
-VCC
+15
+15M
-15
-15M
R3 6.8
R4 6.8
R5 6.8
D9 SVDGS3V20-15
D7 SVDGS3V20-15
D4 SVDGS3V20-15
D6 SVDGS3V20-15
C4 35V4700
C6 35V4700
C8 0.1
C9 0.1
C10 16V10
C11 16V330
D12 MA4180TA
D11 MA4180TA
R11 4.7K
R12 10K
R13 10K
R14 10K
R15 4.7K
Q6 2SA1015TPE2
Q5 2SA1015TPE2
Q4 2SC1815TPE2
Q3 2SA1015TPE2
+15HM
R9 10K
D14 EK04W
R10 3.3K
R8 47K
Q2 2SC1815TPE2
R7 47K
Q1 2SC1815TPE2
D15 MA165TA5
HPS
PMUT
R6 100K
2 PMUT
L7 130uHx3
L6 130uHx3
R99 680
R100 680
LOL
LOR
C56 0.1
C57 0.1
R33 56K
C12 50N1
R34 6.8K
3 SUML
SUML
R31 22K
R30 3.3K
C13 220P
R32 22K
EOINL
C15 220P
R37 22K
EOINR
R36 22K
R39 6.8K
C14 50N1
SUMR
R35 3.3K
R38 56K
4 SUMR
R40 10K
C16 0.015
C17 0.033
C18 0.0068
R41 2.2K
R42 270K
C19 50N1
R43 1.8K
C20 0.047
R44 270K
IC5
M5218AL
(EQUALIZING)
C21 0.047
C22 0.0022
R45 1.8K
R46 180K
C23 0.22
R47 2.7K
C24 0.0047
R48 180K
IC6
M5218AL
-15 (EQUALIZING)
IC3
M5218AL
(MIXING)
R53 10K
C29 0.015
C30 50N1
C31 0.047
R54 1.8K
R55 270K
R56 2.2K
C33 0.0068
C32 0.033
R57 270K
IC7
M5218AL
(EQUALIZING)
C34 0.22
C35 0.0047
R58 2.7K
R59 180K
R60 1.8K
C37 0.0022
C36 0.047
R61 180K
IC8
M5218AL
(EQUALIZING)


PINL
C44 0.1
R66 22K
R67 560K
C38 0.033
C39 0.0022
+15
R62 680
R63 390K
+VCC
-VCC
-15
IC9
M5218AL
(EQUALIZING)
C25 0.033
R49 680
C26 0.0022
R50 390K
D13 EK04W
+15M
IC11
M5218AL
(POWER AMPLIFIER)
C40 0.0068
C41 0.001
R64 3.3K
R65 220K
IC10
M5218AL
(EQUALIZING)
C27 0.0068
R51 3.3K
C28 0.001
R52 220K
C49 0.1
R82 22K
R83 560K
PINR
R69 2.7K
R70 1K
D16 MA165TA5
D17 MA165TA5
R71 10K
R72 1K
R68 1K
R73 2.7K
Q11 2SC1815TPE2
Q12 2SA1015TPE2
R74 100
D18 W6E05
Q15 2SA1725PY
R76 330
R77 330
R78 330
F4
R79 100
D21 W6E05
Q16 2SC4511PY
C45 0.022
C46 0.1
R80 4.7
7 SPL
R85 2.7K
R86 1K
D22 MA165TA5
D23 MA165TA5
R87 10K
R88 1K
R84 1K
R89 2.7K
Q13 2SC1815TPE2
Q14 2SA1015TPE2
R90 100
D24 W6E05
Q17 2SA1725PY
R91 330
R92 330
R93 330
F5
R94 100
D27 W6E05
Q18 2SC4511PY
C50 0.022
C51 0.1
R95 4.7
8 SPR

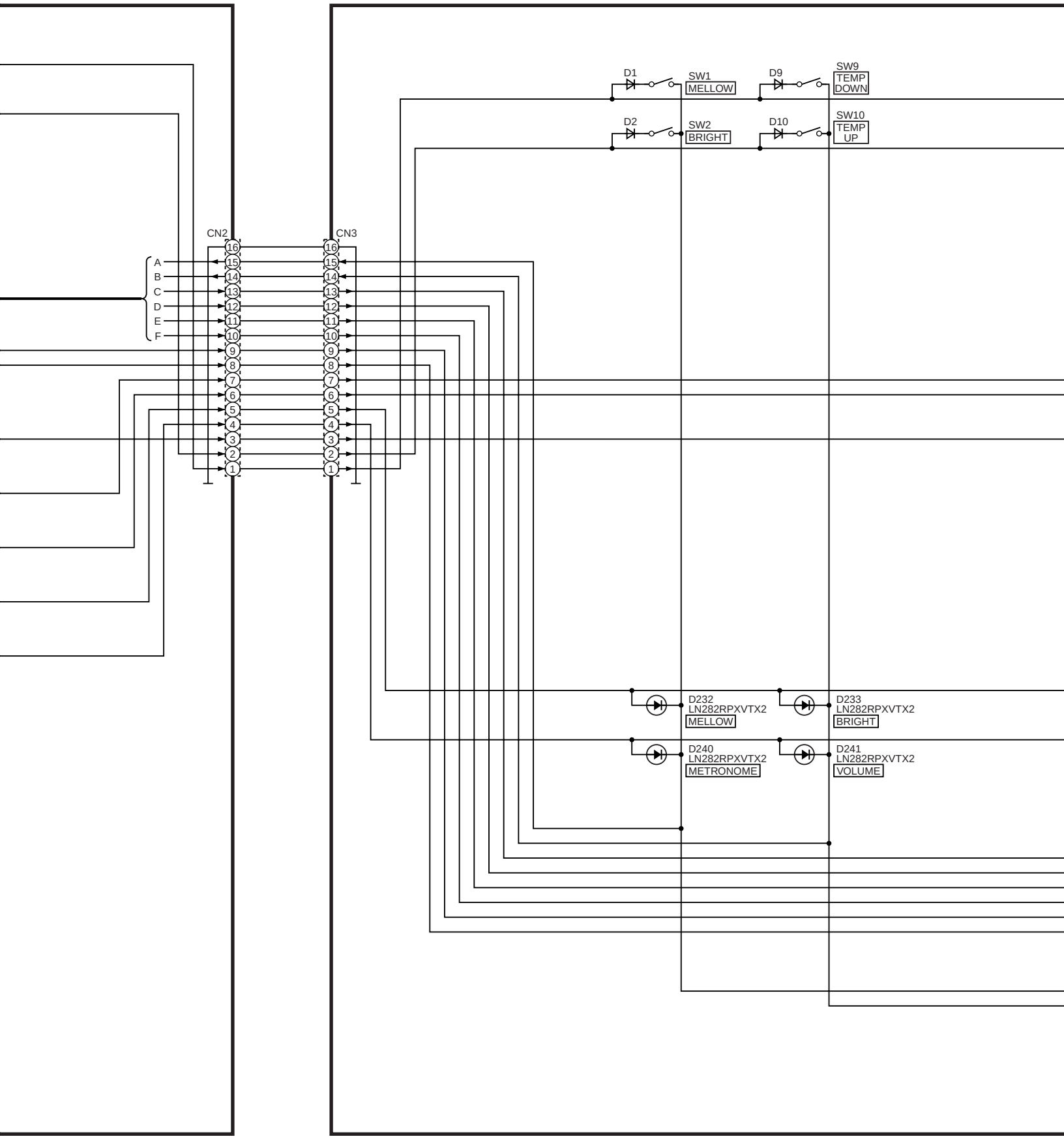

R102
470
JK1
PEDAL IN
R104
470
C60
0.1
R106
470
+5DM
A
B
C
D
E
+5DM
R110
150
JK3
MIDI OUT
D30
MA165TA5
R111
33
Q20
2SA933STRS
C65
220P
D31
MA165TA5
IC12
QCPL-260L
(PHOTO COUPLER)
8 VCC
NC 1
7 VE
2
6 VOUT
3
5 GND
NC 4
+5DM
R114
330
C67
50V1
R113
220
JK2
MIDI IN
D32
MA165TA5
C66
0.047
HPL
EOINL
R24
330K
5 HPL
C43 10P
R25 270K
+15
R29
22
Q10
2SB621ARSTA
R27
22
Q9
2SD592ARSTA
R26
2.2K
+15
8 7 6 5
+VCC
C73
0.1
IC4
M5218AL
(HEADPHONE AMPLIFIER)
-VCC
1 2 3 4
-15
Q8
2SB621ARSTA
R21
22
R20
2.2K
Q7
2SD592ARSTA
R23
22
-15
R19 270K
C42 10P
R18
330K
HPR
6 HPR
EOINR
CN9
1
2
SPR
14cm,6Ω
CN8
1
2
SPL
14cm,6Ω

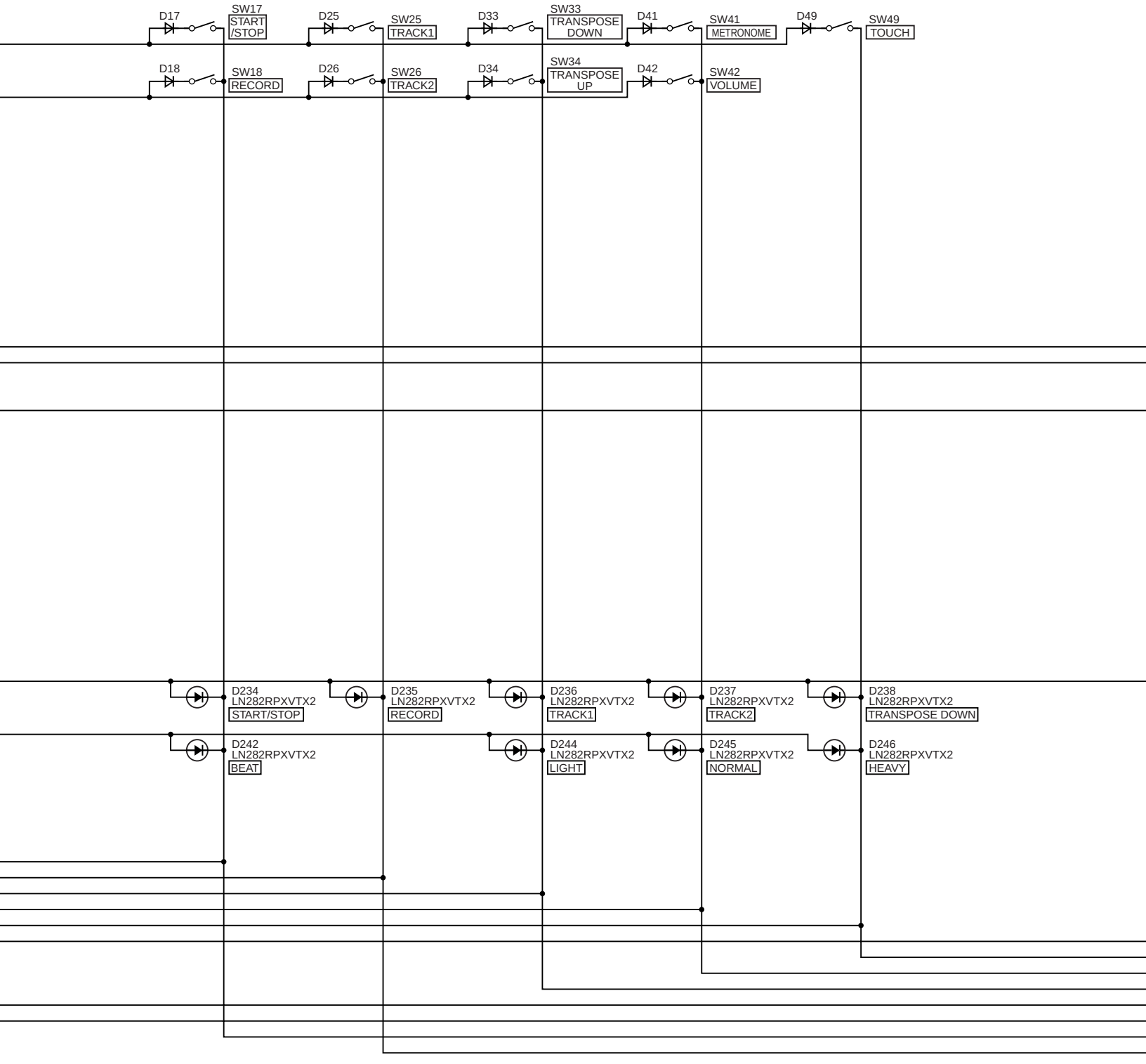
C CPL CIRCUIT

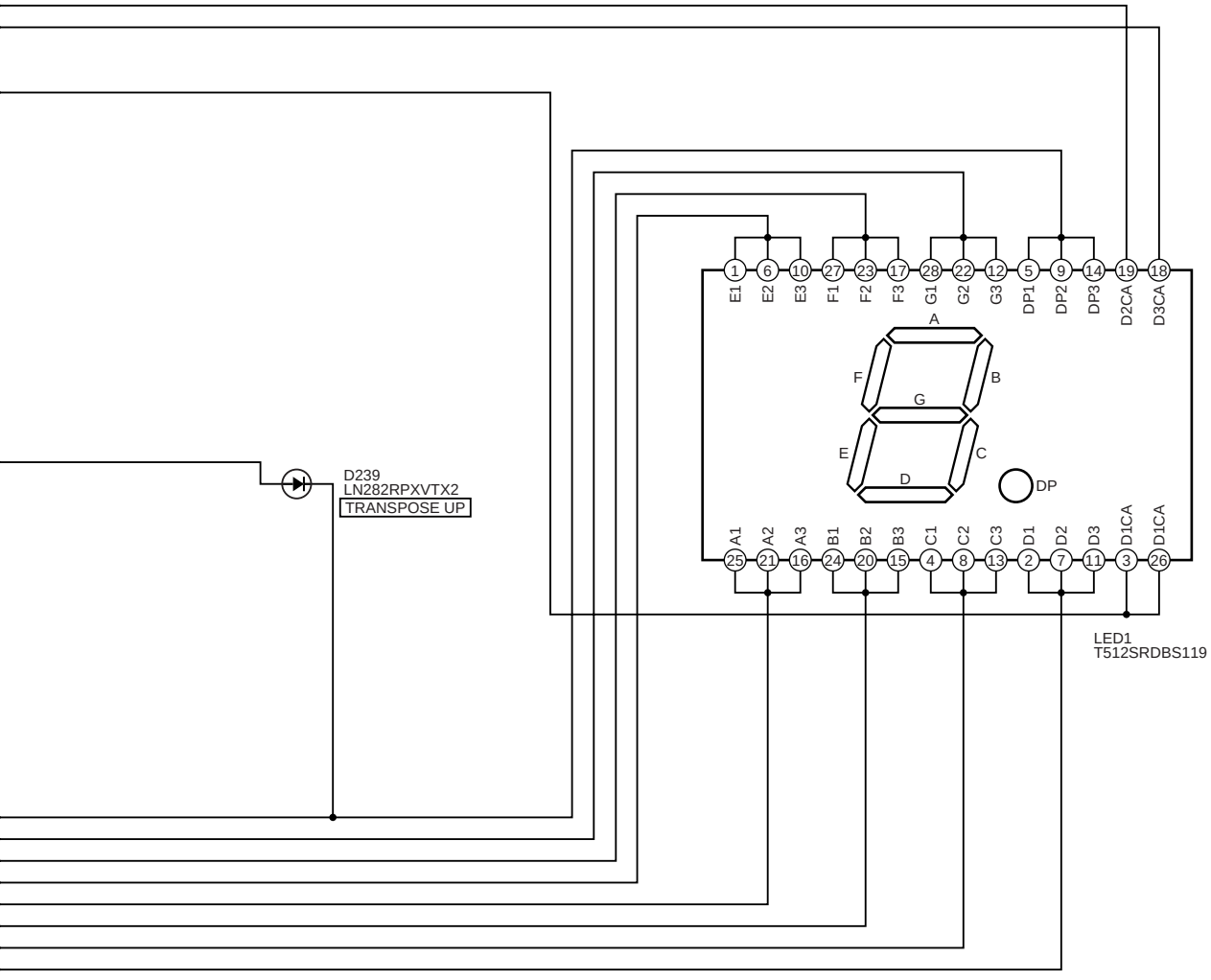



D73
SW73
E.PIANO2
D81
SW81
PIPE
ORGAN
D89
SW89
DIGITAL
REVERB
D66
SW66
GRAND
D74
SW74
HARPSI
D59
SW59
DEMO
D67
SW67
UPRIGHT
D75
SW75
VIBES
D60
SW60
MODE
SET
D68
SW68
E.PIANO1
D76
SW76
STRINGS
D84
SW84
DIGITAL
EFFECT
D69
D256
LN282RPXVTX2
E.PIANO2
D257
LN282RPXVTX2
HARPSI
D258
LN282RPXVTX2
VIBES
D259
LN282RPXVTX2
STRINGS
D265
LN282RPXVTX2
GRAND
D266
LN282RPXVTX2
UPRIGHT
D267
LN282RPXVTX2
E.PIANO1
D280
LN282RPXVTX2
ROOM
D281
LN282RPXVTX2
STAGE
D282
LN282RPXVTX2
HALL
D283
LN282RPXVTX2
CONCERT
D288
LN282RPXVTX2
PIPE
ORGAN
D291
LN282RPXVTX2
DIGITAL
EFFECT
+5IP
R32 100
R33 100
R34 100
R35 100
R36 100
R37 100
C10
0.1
IC3
HD74LS07P
(HEX BUFFERS)
VCC
GND
14
10
12
2
4
6
8
7
11
13
1
3
5
9
G
H
I
J
K
L

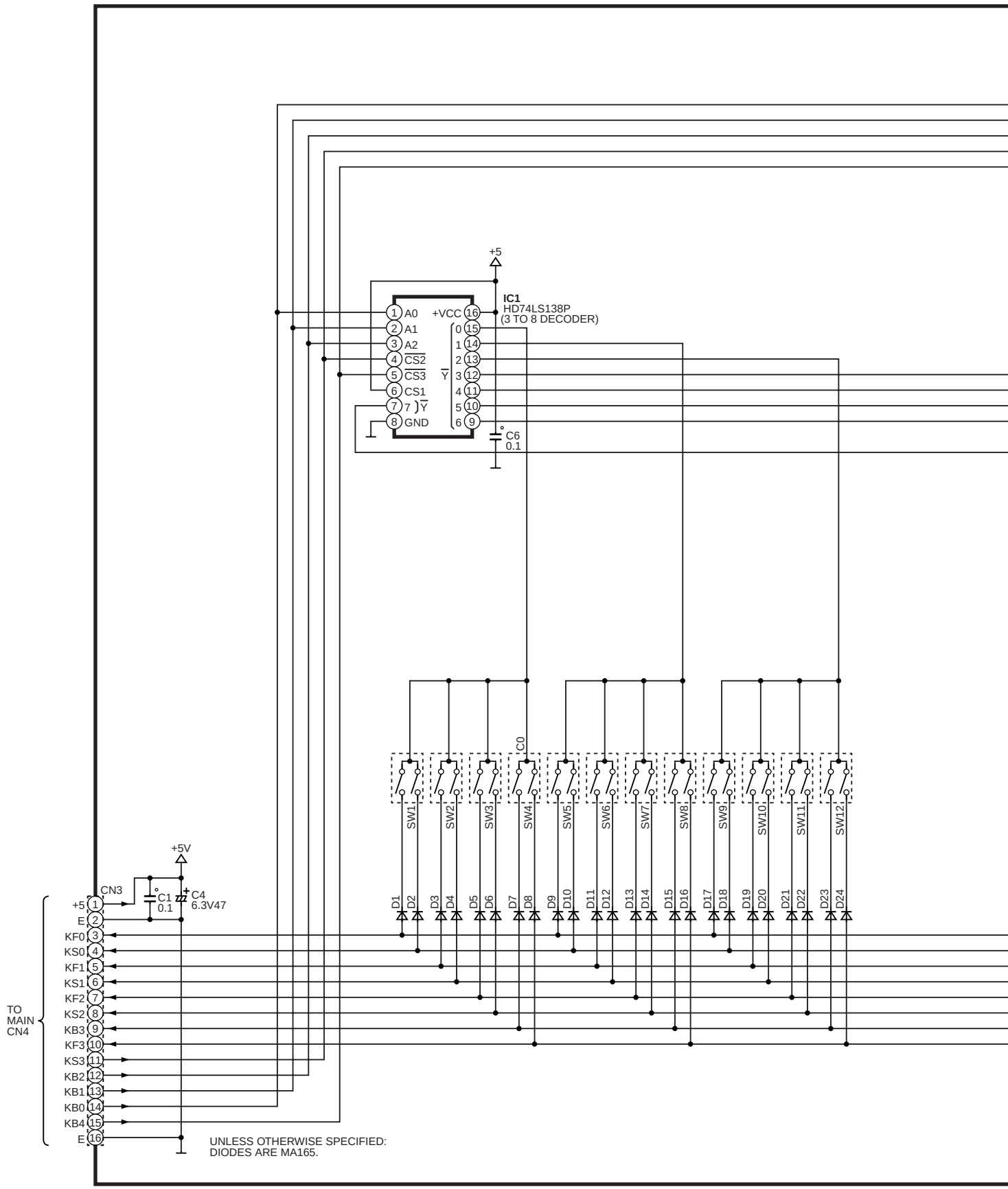
D CPR CIRCUIT

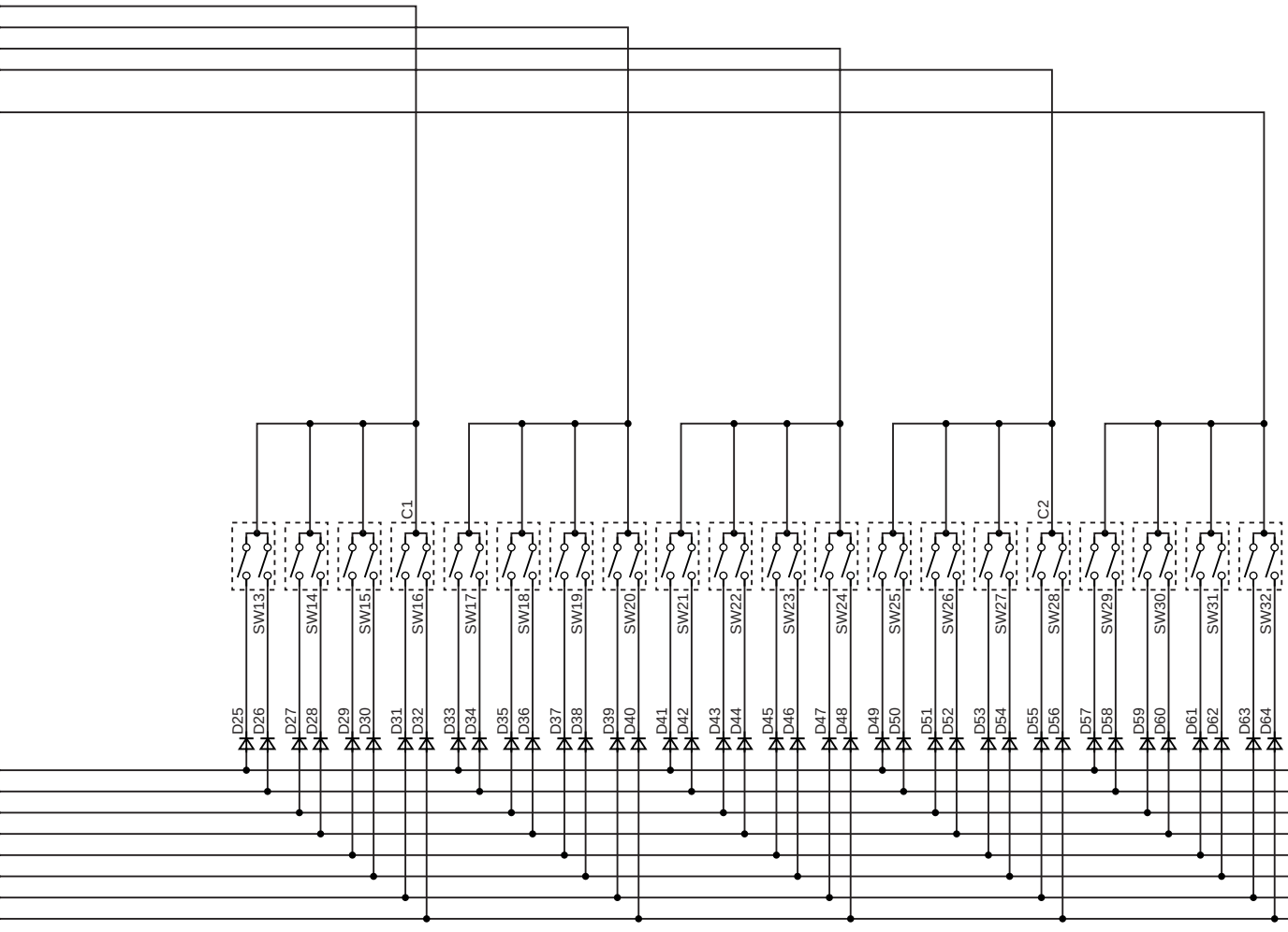



D17
SW17
START /STOP
D25
SW25
TRACK1
D33
SW33
TRANSPOSE DOWN
D41
SW41
METRONOME
D49
SW49
TOUCH
D18
SW18
RECORD
D26
SW26
TRACK2
D34
SW34
TRANSPOSE UP
D42
SW42
VOLUME
D234
LN282RPXVTX2
START/STOP
D235
LN282RPXVTX2
RECORD
D236
LN282RPXVTX2
TRACK1
D237
LN282RPXVTX2
TRACK2
D238
LN282RPXVTX2
TRANSPOSE DOWN
D242
LN282RPXVTX2
BEAT
D244
LN282RPXVTX2
LIGHT
D245
LN282RPXVTX2
NORMAL
D246
LN282RPXVTX2
HEAVY

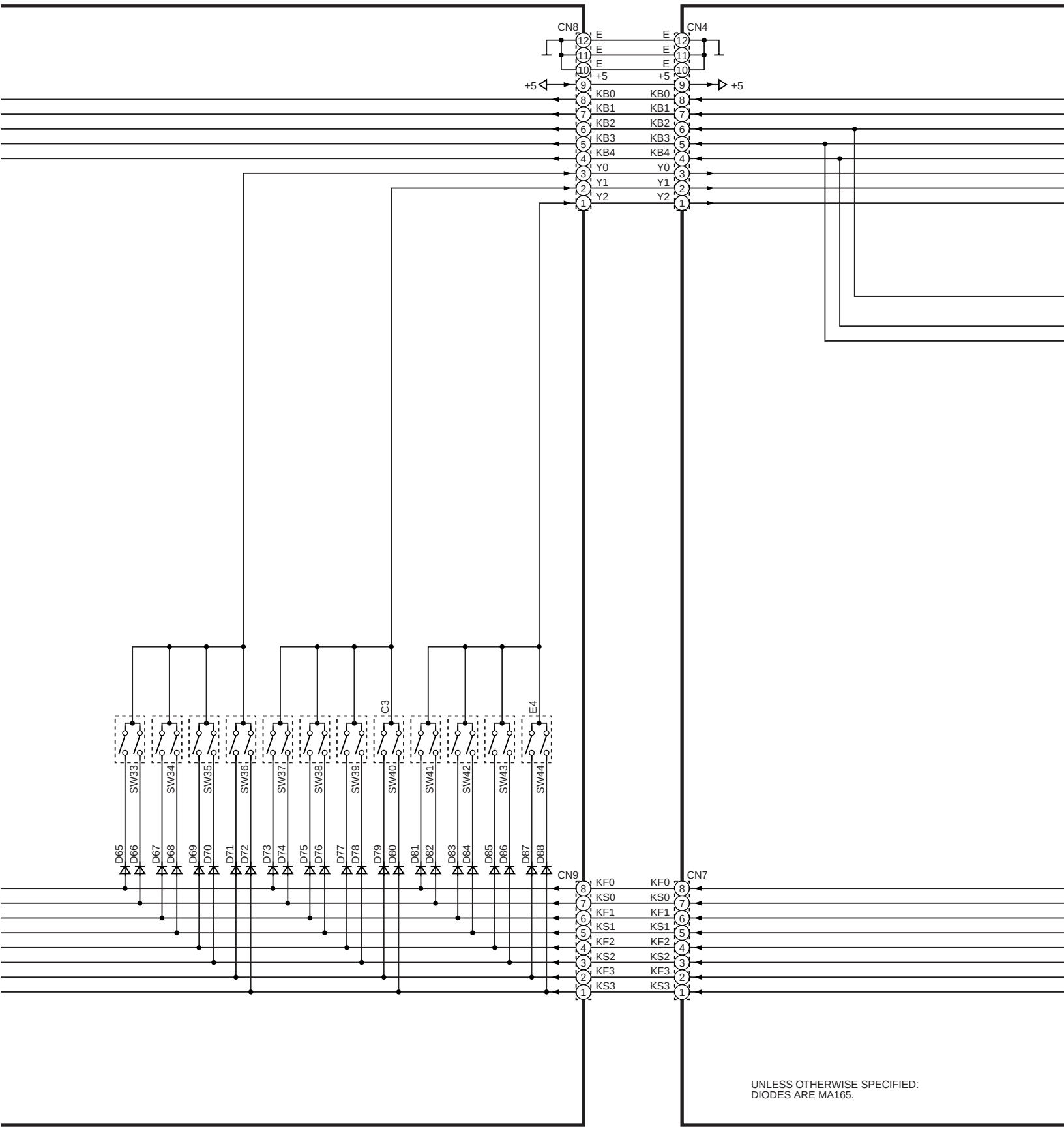

D239
LN282RPXVTX2
TRANSPOSE UP
1 E1
6 E2
10 E3
27 F1
23 F2
17 F3
28 G1
22 G2
12 G3
5 DP1
9 DP2
14 DP3
19 D2CA
18 D3CA
A
F
B
G
E
C
D
DP
25 A1
21 A2
16 A3
24 B1
20 B2
15 B3
4 C1
8 C2
13 C3
2 D1
7 D2
11 D3
3 D1CA
26 D1CA
LED1
T512SRDBS119

E MKB1 CIRCUIT

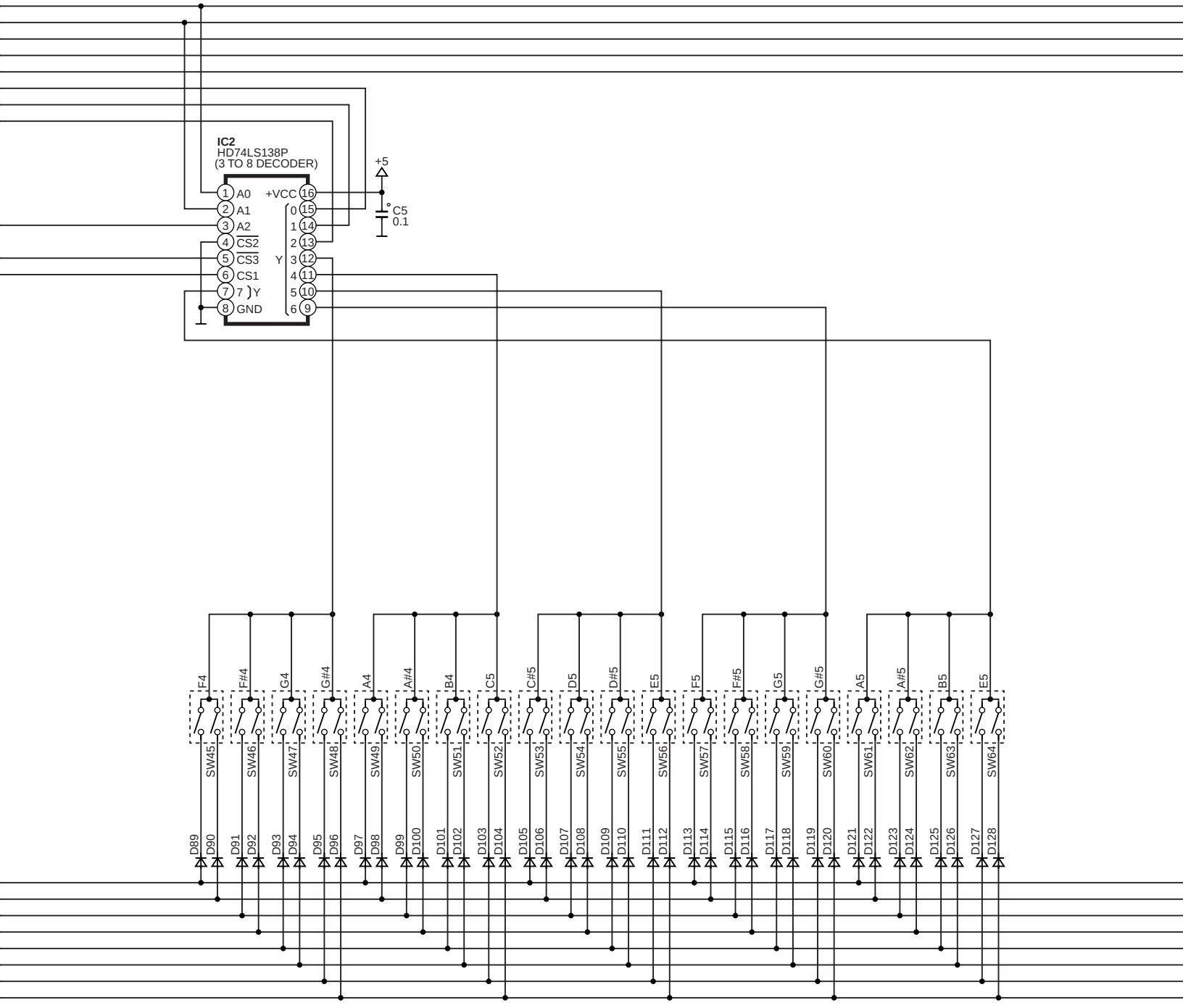



C1
C2
SW13
SW14
SW15
SW16
SW17
SW18
SW19
SW20
SW21
SW22
SW23
SW24
SW25
SW26
SW27
SW28
SW29
SW30
SW31
SW32
D25
D26
D27
D28
D29
D30
D31
D32
D33
D34
D35
D36
D37
D38
D39
D40
D41
D42
D43
D44
D45
D46
D47
D48
D49
D50
D51
D52
D53
D54
D55
D56
D57
D58
D59
D60
D61
D62
D63
D64

F MKB2 CIRCUIT



UNLESS OTHERWISE SPECIFIED:
DIODES ARE MA165.


IC2
HD74LS138P
(3 TO 8 DECODER)
A0
A1
A2
CS2
CS3
CS1
7
GND
+VCC
Y
+5
C5
0.1
F4
F#4
G4
G#4
A4
A#4
B4
C5
C#5
D5
D#5
E5
F5
F#5
G5
G#5
A5
A#5
B5
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SW45
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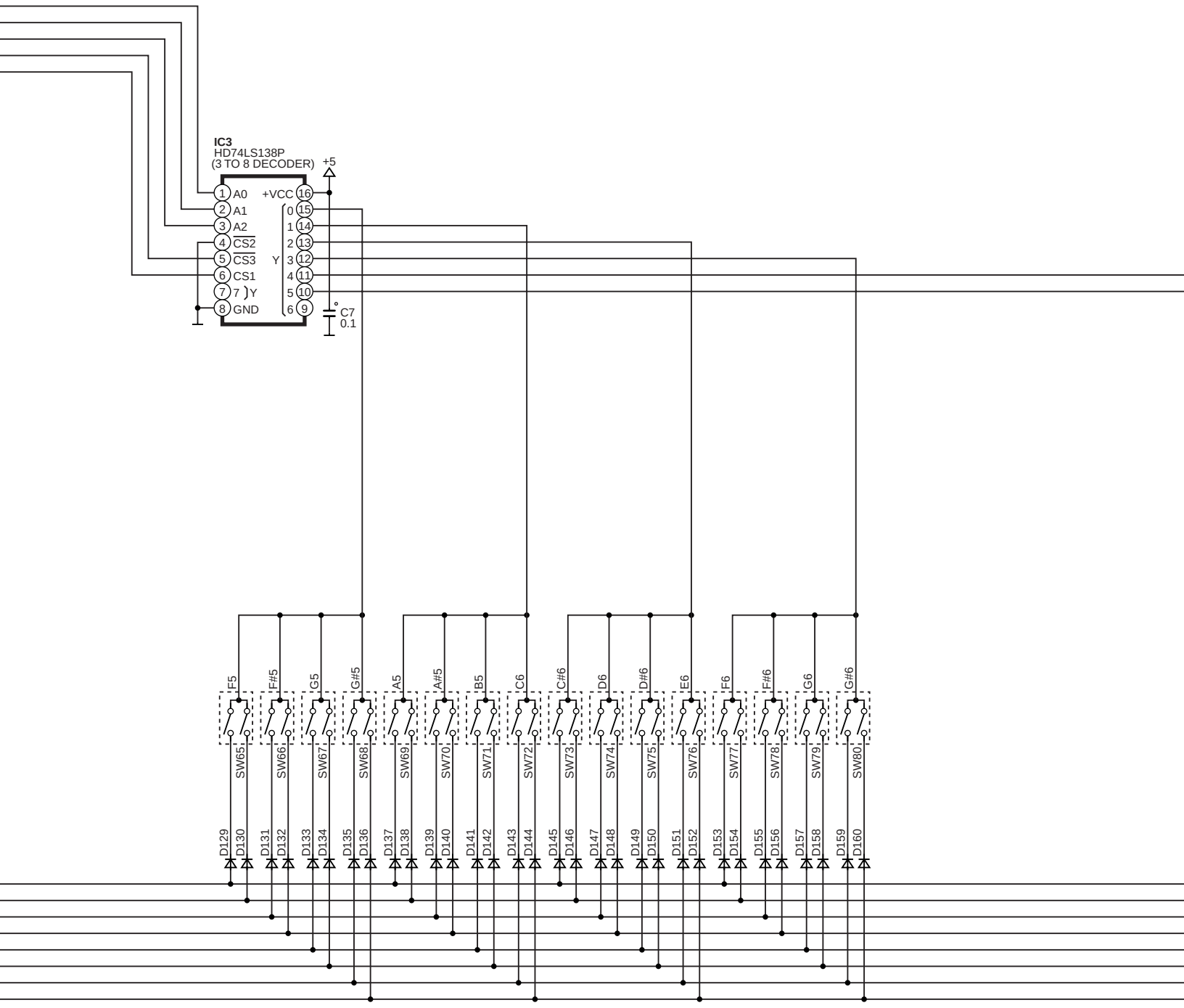
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HD74LS138P
(3 TO 8 DECODER)
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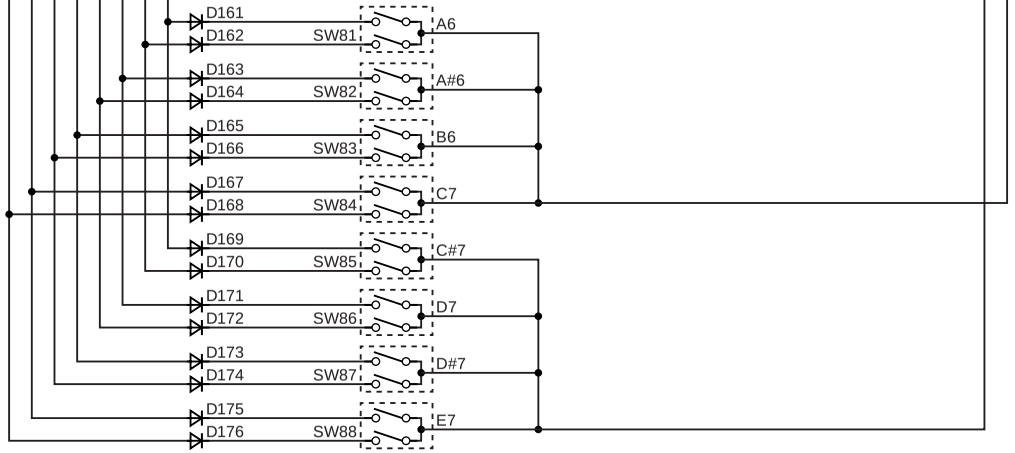
2 A1
3 A2
4 CS2
5 CS3
6 CS1
7 7
8 GND
+VCC 16
Y 0 15 1 14 2 13 3 12 4 11 5 10 6 9
C7
0.1
F5 F#5 G5 G#5 A5 A#5 B5 C6 C#6 D6 D#6 E6 F6 F#6 G6 G#6
SW65 SW66 SW67 SW68 SW69 SW70 SW71 SW72 SW73 SW74 SW75 SW76 SW77 SW78 SW79 SW80
D129 D130 D131 D132 D133 D134 D135 D136 D137 D138 D139 D140 D141 D142 D143 D144 D145 D146 D147 D148 D149 D150 D151 D152 D153 D154 D155 D156 D157 D158 D159 D160


D161
D162
SW81
A6
D163
D164
SW82
A#6
D165
D166
SW83
B6
D167
D168
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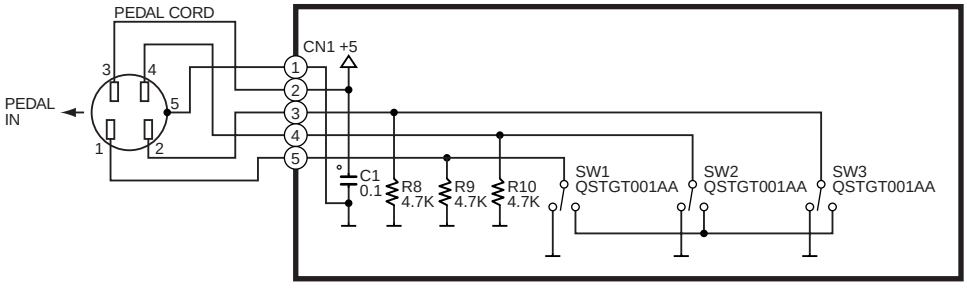
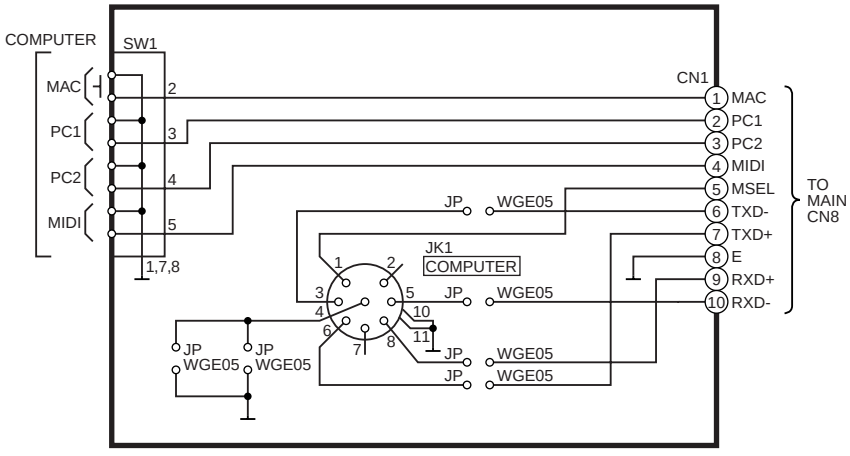
C7
D169
D170
SW85
C#7
D171
D172
SW86
D7
D173
D174
SW87
D#7
D175
D176
SW88
E7

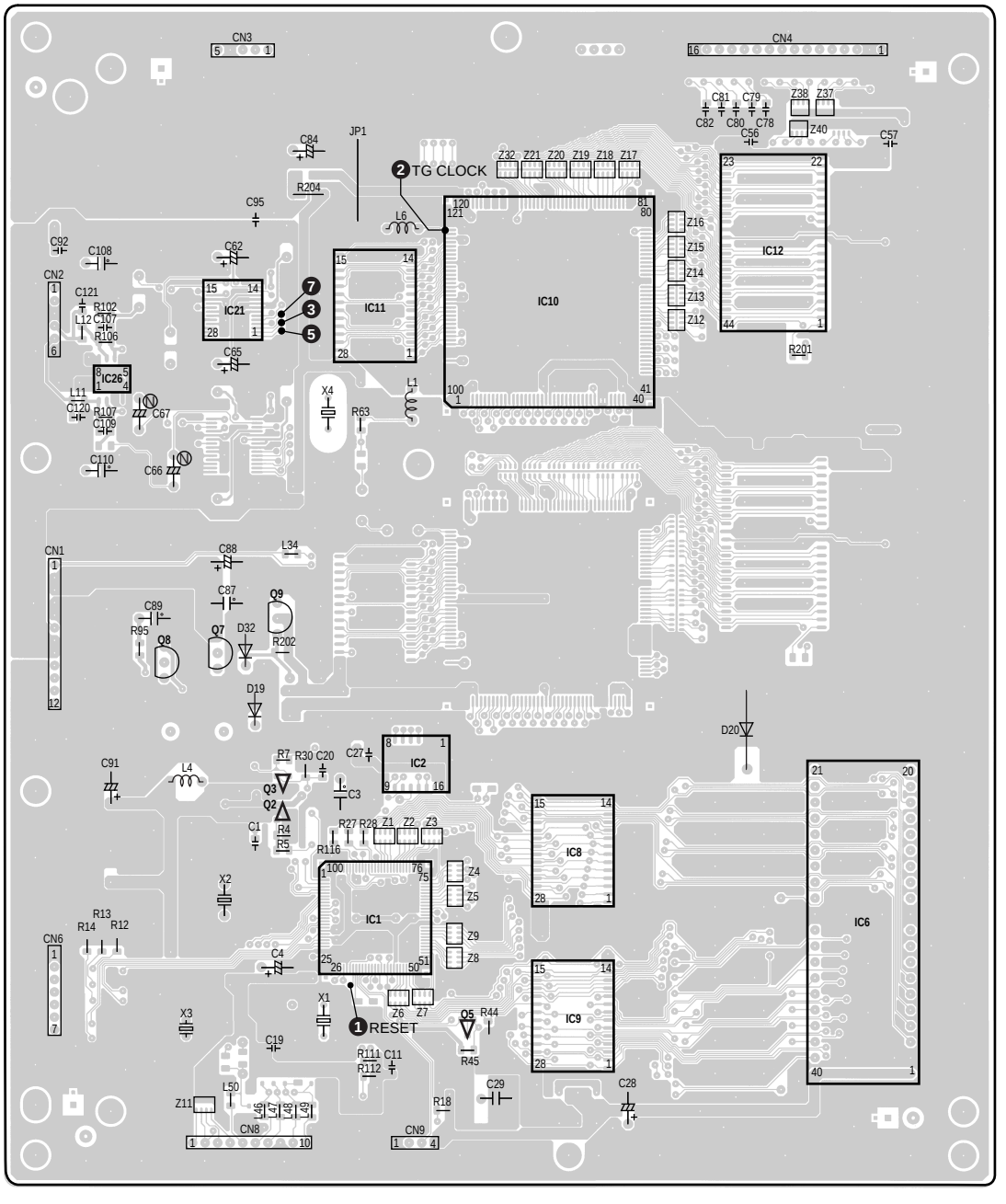
G PKB CIRCUIT



H COM CIRCUIT



A MAIN P.C.B. (COMPONENT SIDE)



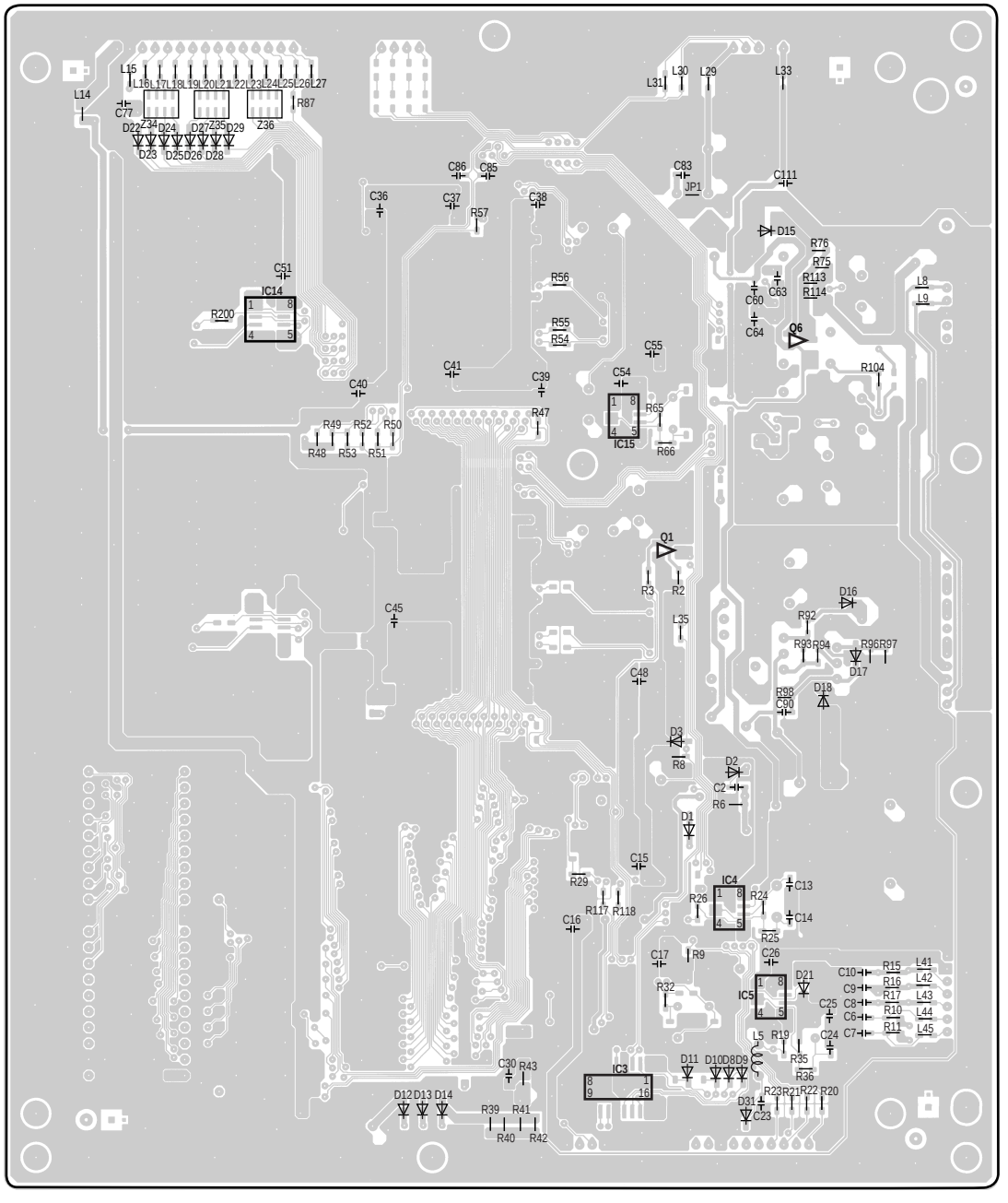
ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
A MAIN P.C.B. (COMPONENT SIDE)									
IC1	C-6	CN9	C-7	L1	C-3	R44	C-6	C65	B-3
IC2	C-5	Z1	C-5	L4	B-5	R45	C-6	C66	A-3
IC6	E-6	Z2	C-5	L6	C-2	R63	B-3	C67	A-3
IC8	C-5	Z3	C-5	L11	A-3	R95	A-4	C78	D-2
IC9	C-6	Z4	C-5	L12	A-3	R102	A-3	C79	D-2
IC10	C-3	Z5	C-5	L34	B-4	R106	A-3	C80	D-2
IC11	C-3	Z6	C-6	L46	B-6	R107	A-3	C81	D-2
IC12	D-2	Z7	C-6	L47	B-6	R111	B-6	C82	D-2
IC21	B-3	Z8	C-6	L48	B-6	R112	B-6	C84	B-2
IC26	A-3	Z9	C-6	L49	B-6	R116	B-5	C87	B-4
Q2	B-5	Z11	B-6	L50	B-6	R201	E-3	C88	B-4
Q3	B-5	Z12	D-3	X1	B-6	R202	B-4	C89	A-4
Q5	C-6	Z13	D-3	X2	B-5	R204	B-2	C91	A-5
Q7	B-4	Z14	D-2	X3	B-6	C1	B-5	C92	A-2
Q8	B-4	Z15	D-2	X4	B-3	C3	B-5	C95	B-2
Q9	B-4	Z16	D-2	R4	B-5	C4	B-6	C107	A-3
D19	B-4	Z17	D-2	R5	B-5	C11	C-6	C108	A-2
D20	D-5	Z18	D-2	R7	B-5	C19	B-6	C109	A-3
D32	B-4	Z19	D-2	R12	A-6	C20	B-5	C110	A-3
CN1	A-4	Z20	C-2	R13	A-6	C27	B-5	C120	A-3
CN2	A-2	Z21	C-2	R14	A-6	C28	D-6	C121	A-3
CN3	B-1	Z32	C-2	R18	C-6	C29	C-6		
CN4	D-1	Z37	E-2	R27	B-5	C56	D-2		
CN6	A-6	Z38	E-2	R28	B-5	C57	E-2		
CN8	B-7	Z40	E-2	R30	B-5	C62	B-2		

A B C D E F

1 2 3 4 5 6 7

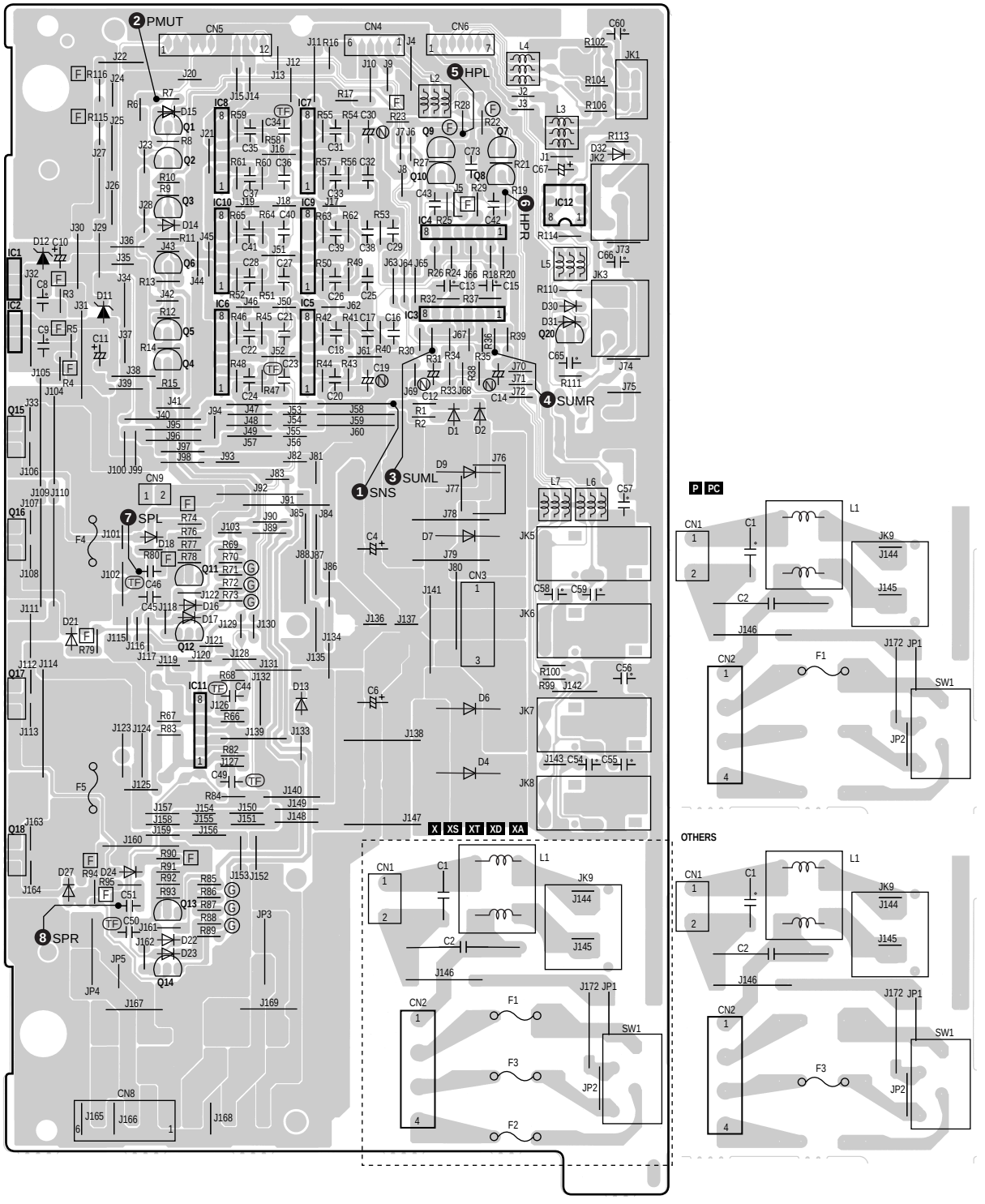
A MAIN P.C.B. (FOIL SIDE)



ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
A MAIN P.C.B. (FOIL SIDE)									
IC3	D-6	Z34	A-2	R3	D-4	R52	B-3	C15	D-5
IC4	D-5	Z35	B-2	R6	D-5	R53	B-3	C16	C-6
IC5	D-6	Z36	B-2	R8	D-5	R54	C-3	C17	D-6
IC14	B-3	L5	D-6	R9	D-6	R55	C-3	C23	D-7
IC15	D-3	L8	E-3	R10	E-6	R56	C-3	C24	E-6
Q1	D-4	L9	E-3	R11	E-6	R57	C-2	C25	E-6
Q6	E-3	L14	A-2	R15	E-6	R65	D-3	C26	D-6
D1	D-5	L15	A-2	R16	E-6	R66	D-3	C30	C-6
D2	D-5	L16	A-2	R17	E-6	R75	E-2	C36	C-2
D3	D-5	L17	A-2	R19	D-6	R76	E-2	C37	C-2
D8	D-6	L18	B-2	R20	E-6	R87	B-2	C38	C-2
D9	D-6	L19	B-2	R21	E-6	R92	E-4	C39	C-3
D10	D-6	L20	B-2	R22	E-6	R93	E-4	C40	B-3
D11	D-6	L21	B-2	R23	E-6	R94	E-4	C41	C-3
D12	C-6	L22	B-2	R24	D-5	R96	E-4	C45	C-4
D13	C-6	L23	B-2	R25	D-6	R97	E-4	C48	D-4
D14	C-6	L24	B-2	R26	D-6	R98	D-5	C51	B-2
D15	D-2	L25	B-2	R29	C-5	R104	E-3	C54	D-3
D16	E-4	L26	B-2	R32	D-6	R113	E-3	C55	D-3
D17	E-4	L27	B-2	R35	E-6	R114	E-3	C60	D-3
D18	E-4	L29	D-2	R36	E-6	R117	D-6	C63	D-3
D21	E-6	L30	D-2	R39	C-7	R118	D-6	C64	D-3
D22	A-2	L31	D-2	R40	C-7	R200	B-3	C77	A-2
D23	A-2	L33	D-2	R41	C-7	C2	D-5	C83	D-2
D24	B-2	L35	D-4	R42	C-7	C6	E-6	C85	C-2
D25	B-2	L41	E-6	R43	C-6	C7	E-6	C86	C-2
D26	B-2	L42	E-6	R47	C-3	C8	E-6	C90	D-5
D27	B-2	L43	E-6	R48	B-3	C9	E-6	C111	D-2
D28	B-2	L44	E-6	R49	B-3	C10	E-6		
D29	B-2	L45	E-6	R50	C-3	C13	E-5		
D31	D-6	R2	D-4	R51	C-3	C14	E-6		

B FJASP P.C.B.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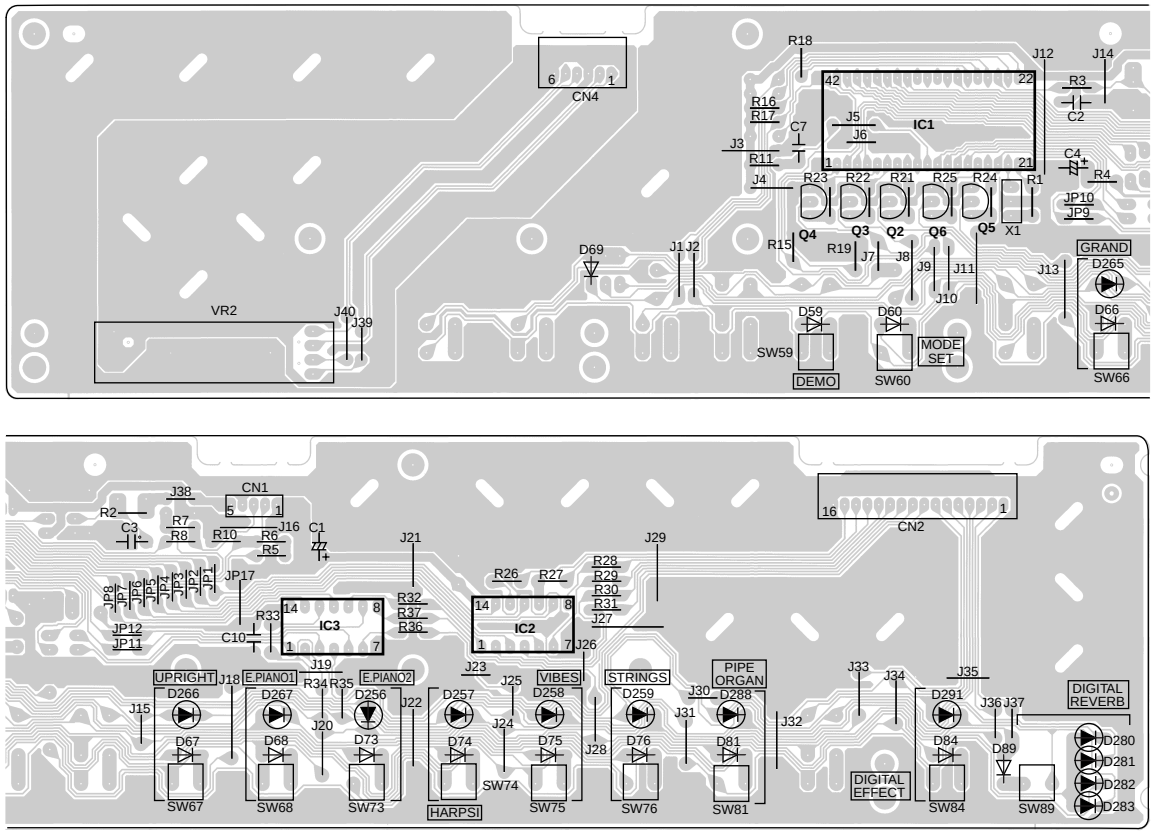
5 HPL
6 HPR
4 SUMR
3 SUML
1 SNS
7 SPL
8 SPR
P PC
OTHERS
X XS XT XD XA

ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
B FJASP P.C.B.									
IC1	A-2	D31	D-3	R35	C-3	R88	B-6	C36	B-2
IC2	A-3	D32	D-2	R36	C-3	R89	B-6	C37	B-2
IC3	C-3	CN1	C-6	R37	C-3	R90	B-6	C38	C-2
IC4	C-2	CN2	C-7	R38	C-3	R91	B-6	C39	C-2
IC5	B-3	CN3	C-4	R39	D-3	R92	B-6	C40	B-2
IC6	B-3	CN4	C-1	R40	C-3	R93	B-6	C41	B-2
IC7	B-2	CN5	B-1	R41	C-3	R94	A-6	C42	C-2
IC8	B-2	CN6	C-1	R42	B-3	R95	A-6	C43	C-2
IC9	B-2	CN8	A-7	R43	C-3	R99	D-5	C44	B-5
IC10	B-2	CN9	B-4	R44	B-3	R100	D-5	C45	B-4
IC11	B-5	L1	D-6	R45	B-3	R102	D-1	C46	B-4
IC12	D-2	L2	C-2	R46	B-3	R104	D-2	C49	B-5
Q1	B-2	L3	D-2	R47	B-3	R106	D-2	C50	A-6
Q2	B-2	L4	D-1	R48	B-3	R110	D-3	C51	A-6
Q3	B-2	L5	D-3	R49	C-3	R111	D-3	C54	D-5
Q4	B-3	L6	D-4	R50	B-3	R113	D-2	C55	D-5
Q5	B-3	L7	D-4	R51	B-3	R114	D-2	C56	D-5
Q6	B-3	R1	C-3	R52	B-3	R115	A-2	C57	D-4
Q7	C-2	R2	C-3	R53	C-2	R116	A-2	C58	D-4
Q8	C-2	R3	A-3	R54	C-2	C1	C-6	C59	D-4
Q9	C-2	R4	A-3	R55	B-2	C2	C-6	C60	D-1
Q10	C-2	R5	A-3	R56	C-2	C4	C-4	C65	D-3
Q11	B-4	R6	A-2	R57	B-2	C6	C-5	C66	D-3
Q12	B-5	R7	B-2	R58	B-2	C8	A-3	C67	D-2
Q13	B-6	R8	B-2	R59	B-2	C9	A-3	C73	C-2
Q14	B-6	R9	B-2	R60	B-2	C10	A-2	F1	D-7
Q15	A-3	R10	B-2	R61	B-2	C11	A-3	F2	D-7
Q16	A-4	R11	B-2	R62	C-2	C12	C-3	F3	D-7
Q17	A-5	R12	B-3	R63	B-2	C13	C-3	F4	A-4
Q18	A-6	R13	B-3	R64	B-2	C14	C-3	F5	A-5
Q20	D-3	R14	B-3	R65	B-2	C15	C-3	JK1	D-2
D1	C-3	R15	B-3	R66	B-5	C16	C-3	JK2	D-2
D2	C-3	R16	C-1	R67	B-5	C17	C-3	JK3	D-3
D4	C-5	R17	C-2	R68	B-5	C18	C-3	JK5	D-4
D6	C-5	R18	C-2	R69	B-4	C19	C-3	JK6	D-4
D7	C-4	R19	C-2	R70	B-4	C20	C-3	JK7	D-5
D9	C-4	R20	C-2	R71	B-4	C21	B-3	JK8	D-5
D11	A-3	R21	D-2	R72	B-4	C22	B-3	JK9	D-6
D12	A-2	R22	C-2	R73	B-4	C23	B-3	JP1	D-6
D13	B-5	R23	C-2	R74	B-4	C24	B-3	JP2	D-7
D14	B-2	R24	C-3	R76	B-4	C25	C-3	JP3	B-6
D15	B-2	R25	C-2	R77	B-4	C26	C-3	JP4	A-7
D16	B-4	R26	C-3	R78	B-4	C27	B-3	JP5	A-6
D17	B-4	R27	C-2	R79	A-5	C28	B-3	SW1	D-7
D18	B-4	R28	C-2	R80	B-4	C29	C-2		
D21	A-5	R29	C-2	R82	B-5	C30	C-2		
D22	B-6	R30	C-3	R83	B-5	C31	C-2		
D23	B-6	R31	C-3	R84	B-5	C32	C-2		
D24	A-6	R32	C-3	R85	B-6	C33	C-2		
D27	A-6	R33	C-3	R86	B-6	C34	B-2		
D30	D-3	R34	C-3	R87	B-6	C35	B-2		

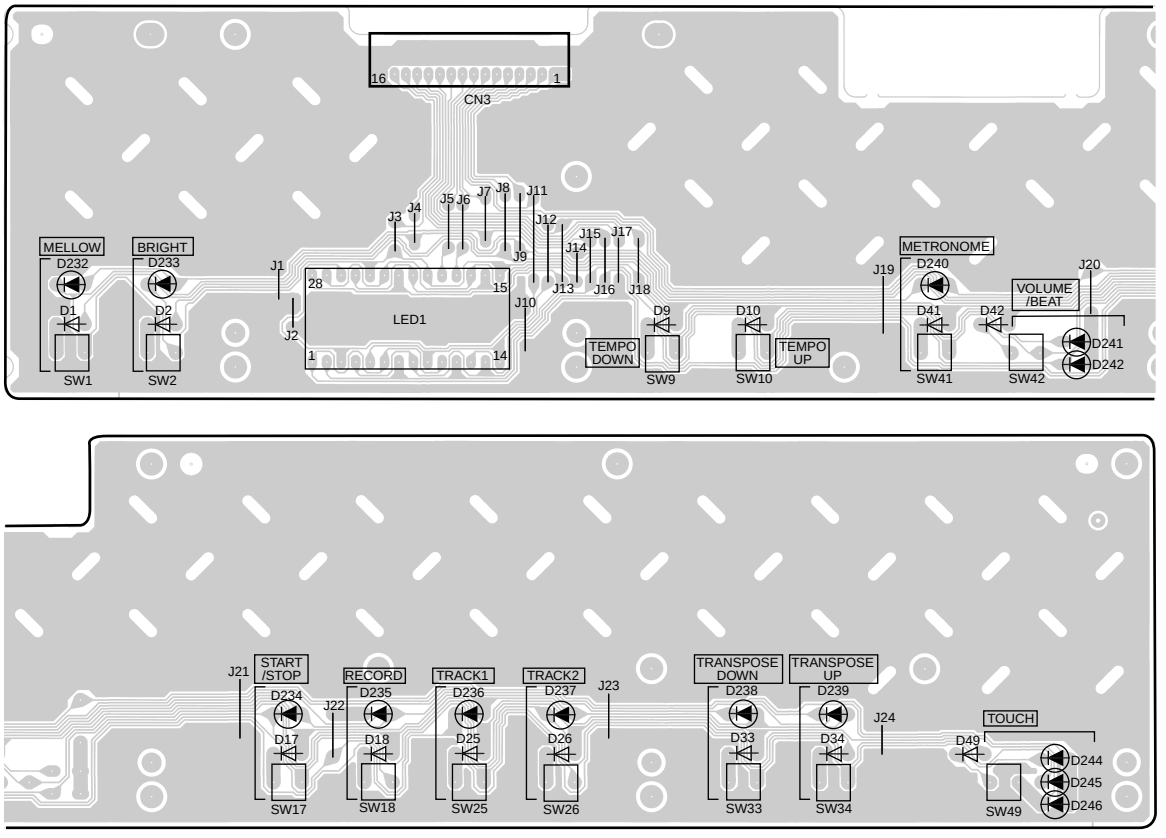
C CPL P.C.B.



ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
C CPL P.C.B.									
IC1	E-2	D81	D-4	CN4	C-2	R22	E-2	C3	A-4
IC2	C-4	D84	E-4	X1	E-2	R23	D-2	C4	E-2
IC3	B-4	D89	E-5	R1	E-2	R24	E-2	C7	D-2
Q2	E-2	D256	B-4	R2	A-3	R25	E-2	C10	B-4
Q3	E-2	D257	C-4	R3	E-2	R26	C-4	SW59	D-3
Q4	D-2	D258	C-4	R4	F-2	R27	C-4	SW60	E-3
Q5	E-2	D259	D-4	R5	B-4	R28	C-4	SW66	F-3
Q6	E-2	D265	F-2	R6	B-4	R29	C-4	SW67	B-5
D59	D-3	D266	B-4	R7	B-4	R30	C-4	SW68	B-5
D60	E-3	D267	B-4	R8	B-4	R31	C-4	SW73	B-5
D66	F-3	D280	F-4	R10	B-4	R32	C-4	SW74	C-5
D67	B-4	D281	F-5	R11	D-2	R33	B-4	SW75	C-5
D68	B-4	D282	F-5	R15	D-2	R34	B-4	SW76	D-5
D69	C-2	D283	F-5	R16	D-2	R35	B-4	SW81	D-5
D73	B-4	D288	D-4	R17	D-2	R36	C-4	SW84	E-5
D74	C-4	D291	E-4	R18	D-1	R37	C-4	SW89	E-5
D75	C-4	CN1	B-3	R19	D-2	C1	B-4	VR2	B-3
D76	D-4	CN2	E-4	R21	E-2	C2	E-2		

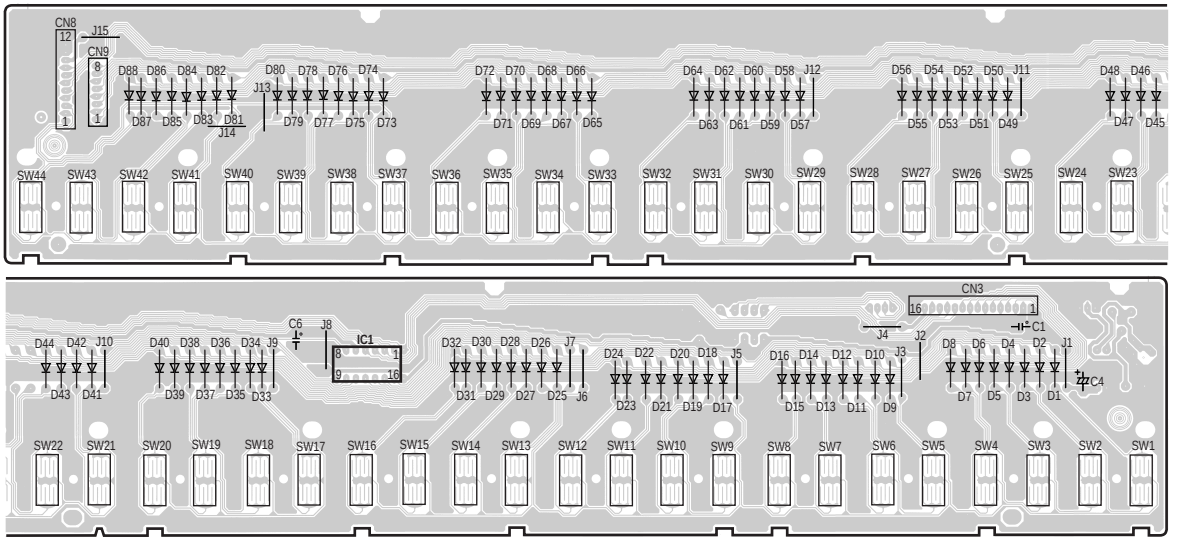
D CPR P.C.B.



ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
D CPR P.C.B.									
D1	A-3	D34	D-4	D237	C-4	CN3	C-2	SW33	D-5
D2	A-3	D41	E-3	D238	D-4	SW1	A-3	SW34	D-5
D9	D-3	D42	E-3	D239	D-4	SW2	A-3	SW41	E-3
D10	D-3	D49	E-4	D240	E-2	SW9	D-3	SW42	E-3
D17	B-4	D232	A-2	D241	F-3	SW10	D-3	SW49	E-5
D18	B-4	D233	A-2	D242	F-3	SW17	B-5	LED1	C-3
D25	C-4	D234	B-4	D244	E-5	SW18	B-5		
D26	C-4	D235	B-4	D245	E-5	SW25	C-5		
D33	D-4	D236	C-4	D246	E-5	SW26	C-5		

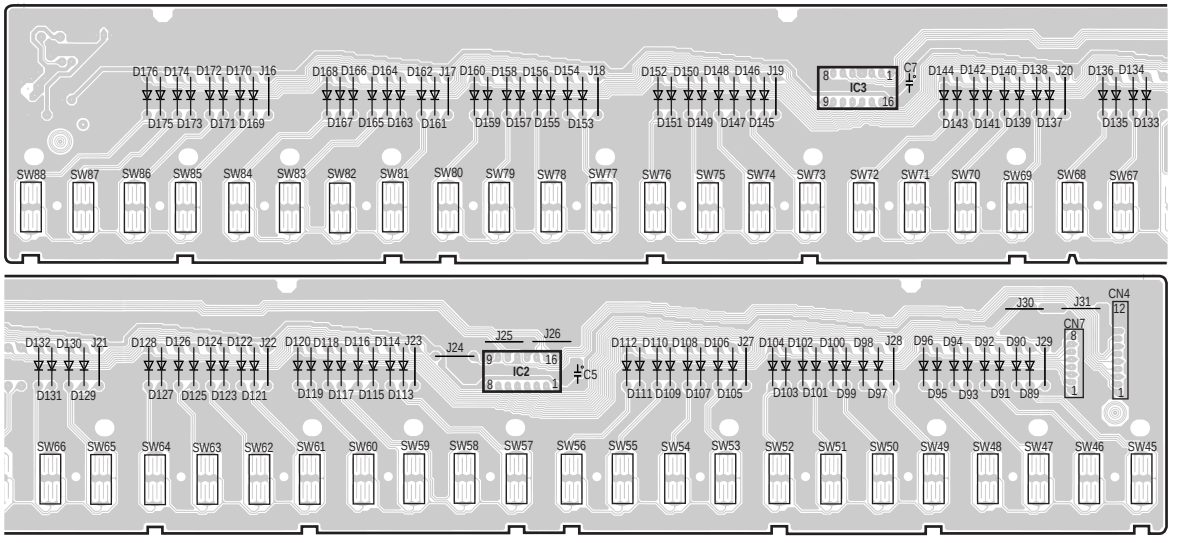
E MKB1 P.C.B.



ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
E MKB1 P.C.B.									
IC1	B-3	D28	C-3	D56	E-1	D84	B-1	SW18	B-3
D1	E-3	D29	C-3	D57	D-2	D85	A-2	SW19	B-3
D2	E-3	D30	C-3	D58	D-1	D86	A-1	SW20	A-3
D3	E-3	D31	C-3	D59	D-2	D87	A-2	SW21	A-3
D4	E-3	D32	C-3	D60	D-1	D88	A-1	SW22	A-3
D5	E-3	D33	B-3	D61	D-2	CN3	E-2	SW23	F-2
D6	E-3	D34	B-3	D62	D-1	CN8	A-1	SW24	E-2
D7	E-3	D35	B-3	D63	D-2	CN9	A-1	SW25	E-2
D8	E-3	D36	B-3	D64	D-1	C1	E-3	SW26	E-2
D9	E-3	D37	B-3	D65	C-2	C4	F-3	SW27	E-2
D10	E-3	D38	B-3	D66	C-1	C6	B-3	SW28	E-2
D11	E-3	D39	A-3	D67	C-2	SW1	F-3	SW29	D-2
D12	D-3	D40	A-3	D68	C-1	SW2	F-3	SW30	D-2
D13	D-3	D41	A-3	D69	C-2	SW3	E-3	SW31	D-2
D14	D-3	D42	A-3	D70	C-1	SW4	E-3	SW32	D-2
D15	D-3	D43	A-3	D71	C-2	SW5	E-3	SW33	C-2
D16	D-3	D44	A-3	D72	C-1	SW6	E-3	SW34	C-2
D17	D-3	D45	F-2	D73	B-2	SW7	D-3	SW35	C-2
D18	D-3	D46	F-1	D74	B-1	SW8	D-3	SW36	C-2
D19	D-3	D47	F-2	D75	B-2	SW9	D-3	SW37	B-2
D20	D-3	D48	F-1	D76	B-1	SW10	D-3	SW38	B-2
D21	D-3	D49	E-2	D77	B-2	SW11	C-3	SW39	B-2
D22	D-3	D50	E-1	D78	B-1	SW12	C-3	SW40	B-2
D23	C-3	D51	E-2	D79	B-2	SW13	C-3	SW41	B-2
D24	C-3	D52	E-1	D80	B-1	SW14	C-3	SW42	A-2
D25	C-3	D53	E-2	D81	B-2	SW15	C-3	SW43	A-2
D26	C-3	D54	E-1	D82	B-1	SW16	B-3	SW44	A-2
D27	C-3	D55	E-2	D83	B-2	SW17	B-3		

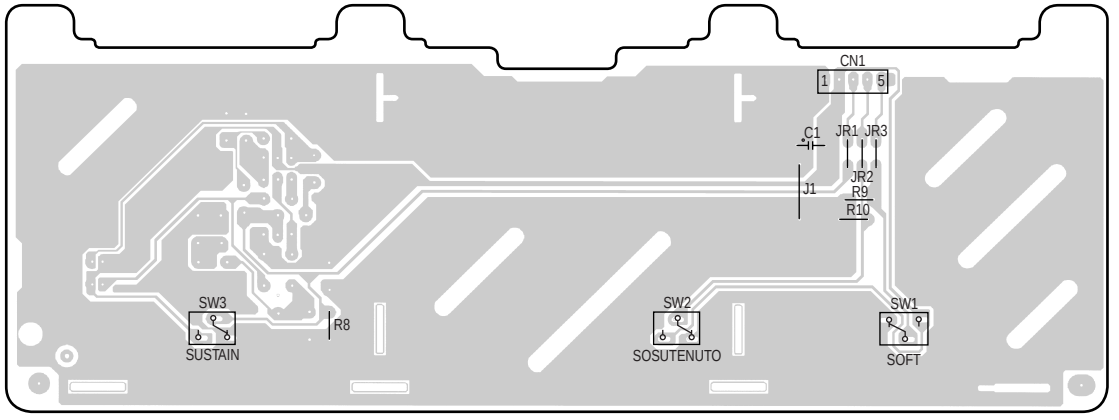
F MKB2 P.C.B.



ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
F MKB2 P.C.B.									
IC2	C-3	D115	B-3	D143	E-2	D171	B-2	SW63	B-3
IC3	E-2	D116	B-3	D144	E-1	D172	B-1	SW64	A-3
D89	E-3	D117	B-3	D145	D-2	D173	B-2	SW65	A-3
D90	E-3	D118	B-3	D146	D-1	D174	B-1	SW66	A-3
D91	E-3	D119	B-3	D147	D-2	D175	A-2	SW67	F-2
D92	E-3	D120	B-3	D148	D-1	D176	A-1	SW68	E-2
D93	E-3	D121	B-3	D149	D-2	CN4	F-2	SW69	E-2
D94	E-3	D122	B-3	D150	D-1	CN7	E-3	SW70	E-2
D95	E-3	D123	B-3	D151	D-2	C5	C-3	SW71	E-2
D96	E-3	D124	B-3	D152	D-1	C7	E-1	SW72	E-2
D97	E-3	D125	B-3	D153	C-2	SW45	F-3	SW73	D-2
D98	E-3	D126	B-3	D154	C-1	SW46	F-3	SW74	D-2
D99	D-3	D127	A-3	D155	C-2	SW47	E-3	SW75	D-2
D100	D-3	D128	A-3	D156	C-1	SW48	E-3	SW76	D-2
D101	D-3	D129	A-3	D157	C-2	SW49	E-3	SW77	C-2
D102	D-3	D130	A-3	D158	C-1	SW50	E-3	SW78	C-2
D103	D-3	D131	A-3	D159	C-2	SW51	D-3	SW79	C-2
D104	D-3	D132	A-3	D160	C-1	SW52	D-3	SW80	C-2
D105	D-3	D133	F-2	D161	C-2	SW53	D-3	SW81	B-2
D106	D-3	D134	F-1	D162	C-1	SW54	D-3	SW82	B-2
D107	D-3	D135	F-2	D163	B-2	SW55	C-3	SW83	B-2
D108	D-3	D136	F-1	D164	B-1	SW56	C-3	SW84	B-2
D109	D-3	D137	E-2	D165	B-2	SW57	C-3	SW85	B-2
D110	D-3	D138	E-1	D166	B-1	SW58	C-3	SW86	A-2
D111	D-3	D139	E-2	D167	B-2	SW59	C-3	SW87	A-2
D112	C-3	D140	E-1	D168	B-1	SW60	B-3	SW88	A-2
D113	B-3	D141	E-2	D169	B-2	SW61	B-3		
D114	B-3	D142	E-1	D170	B-1	SW62	B-3		

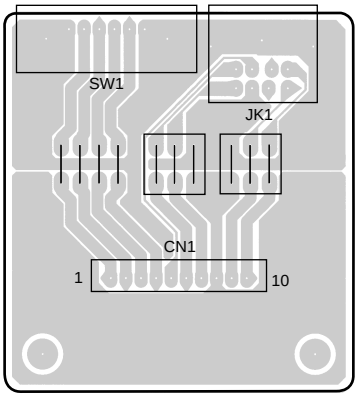
G PKB P.C.B.



ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
G PKB P.C.B.							
CN1	D-1	R10	D-2	SW2	D-3	JR2	E-2
R8	B-3	C1	D-2	SW3	B-3	JR3	E-2
R9	E-2	SW1	E-3	JR1	D-2		

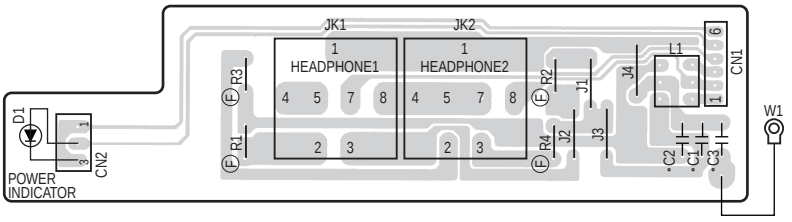
H COM P.C.B.



ELECTRICAL PARTS LOCATION

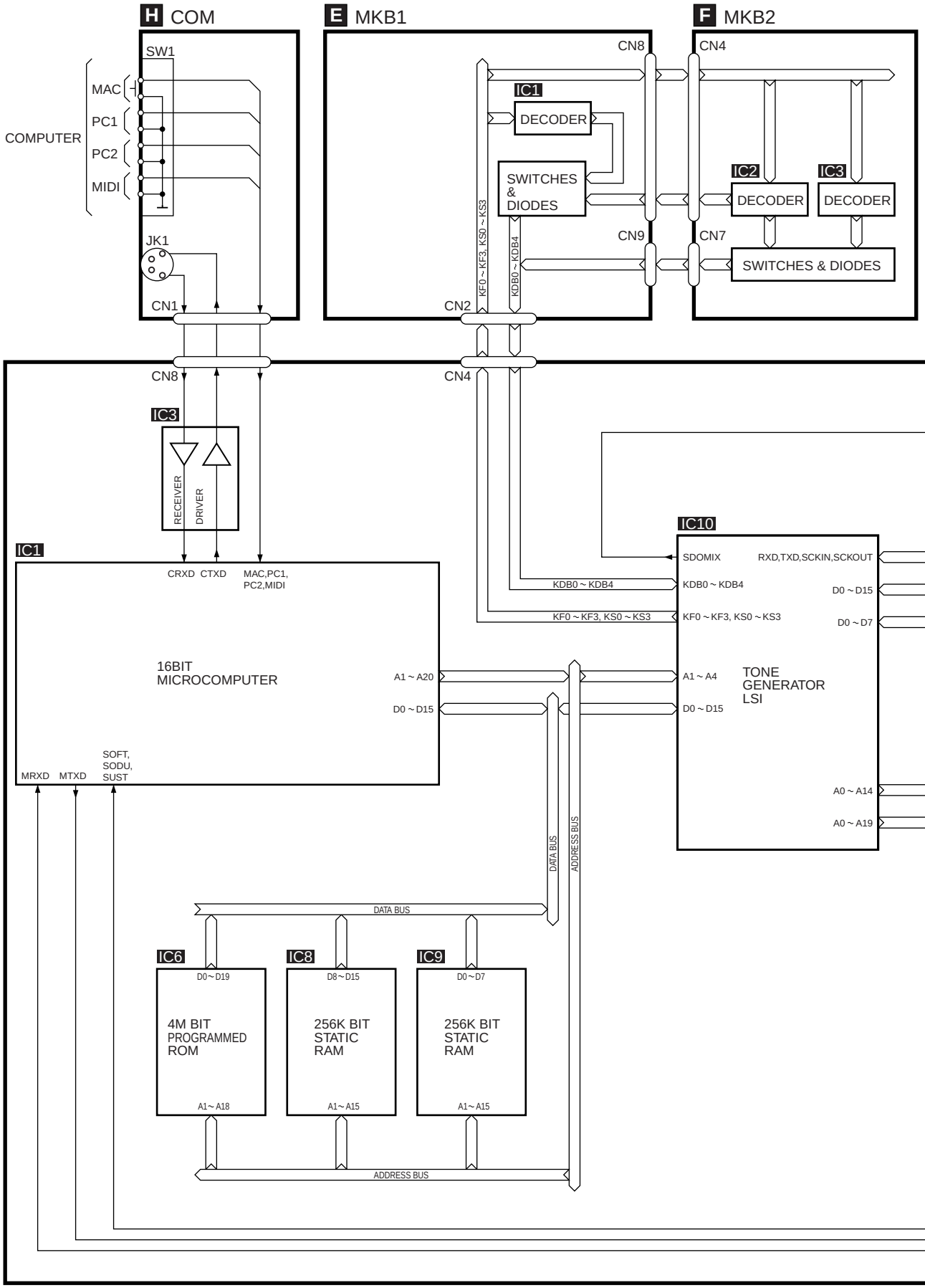
Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
H COM P.C.B.					
CN1	B-2	JK1	B-2	SW1	A-2

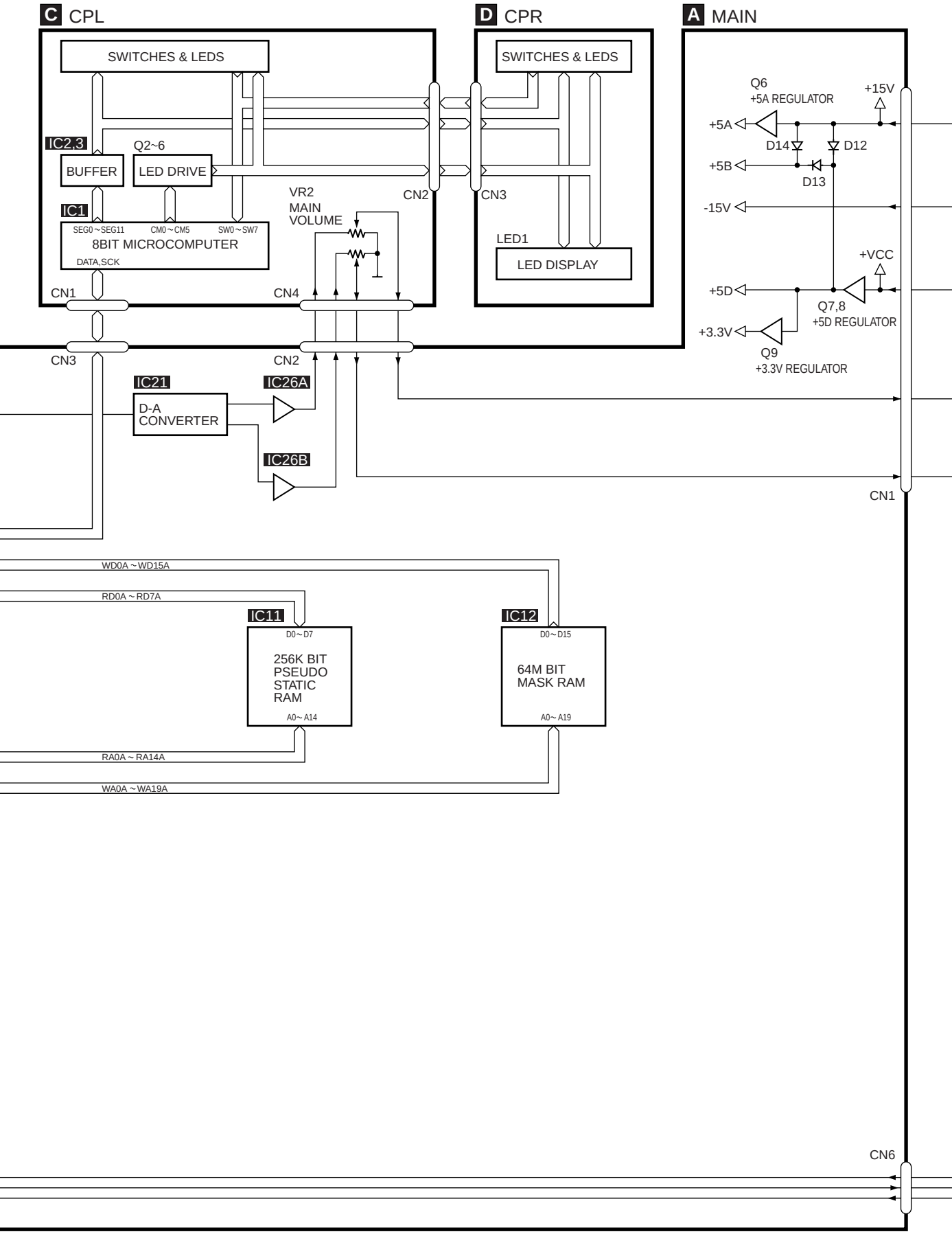
I HP P.C.B.

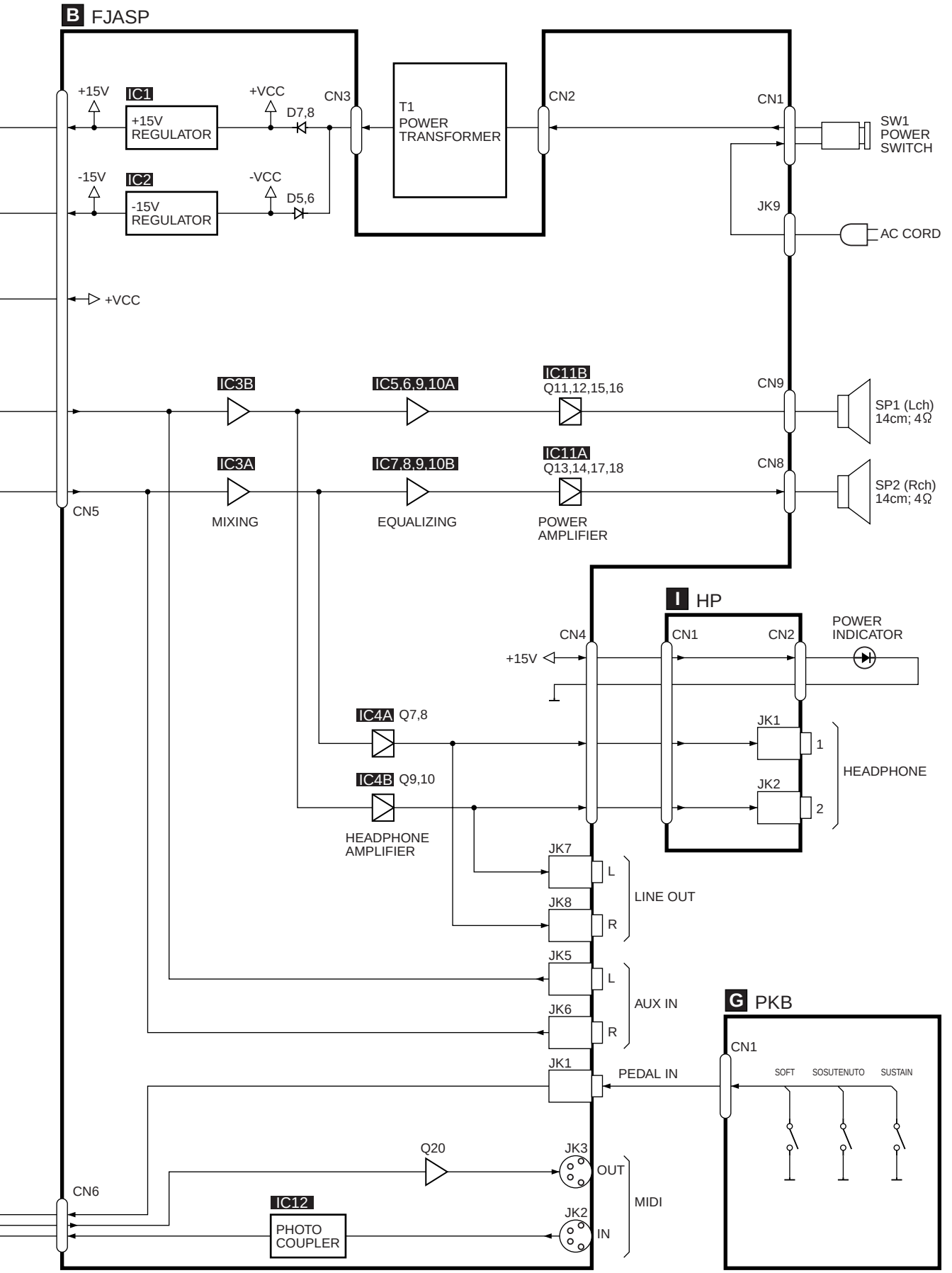


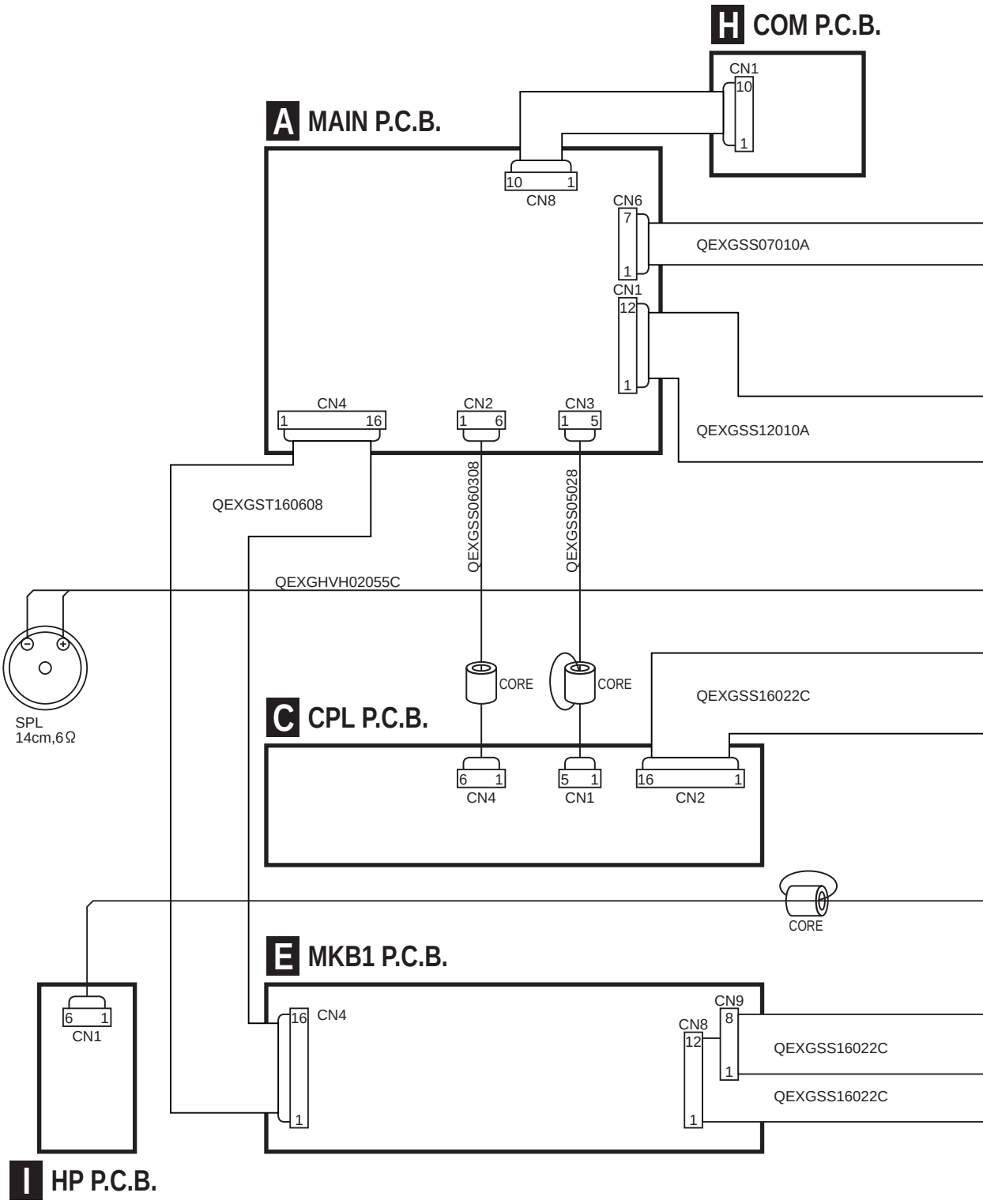
ELECTRICAL PARTS LOCATION

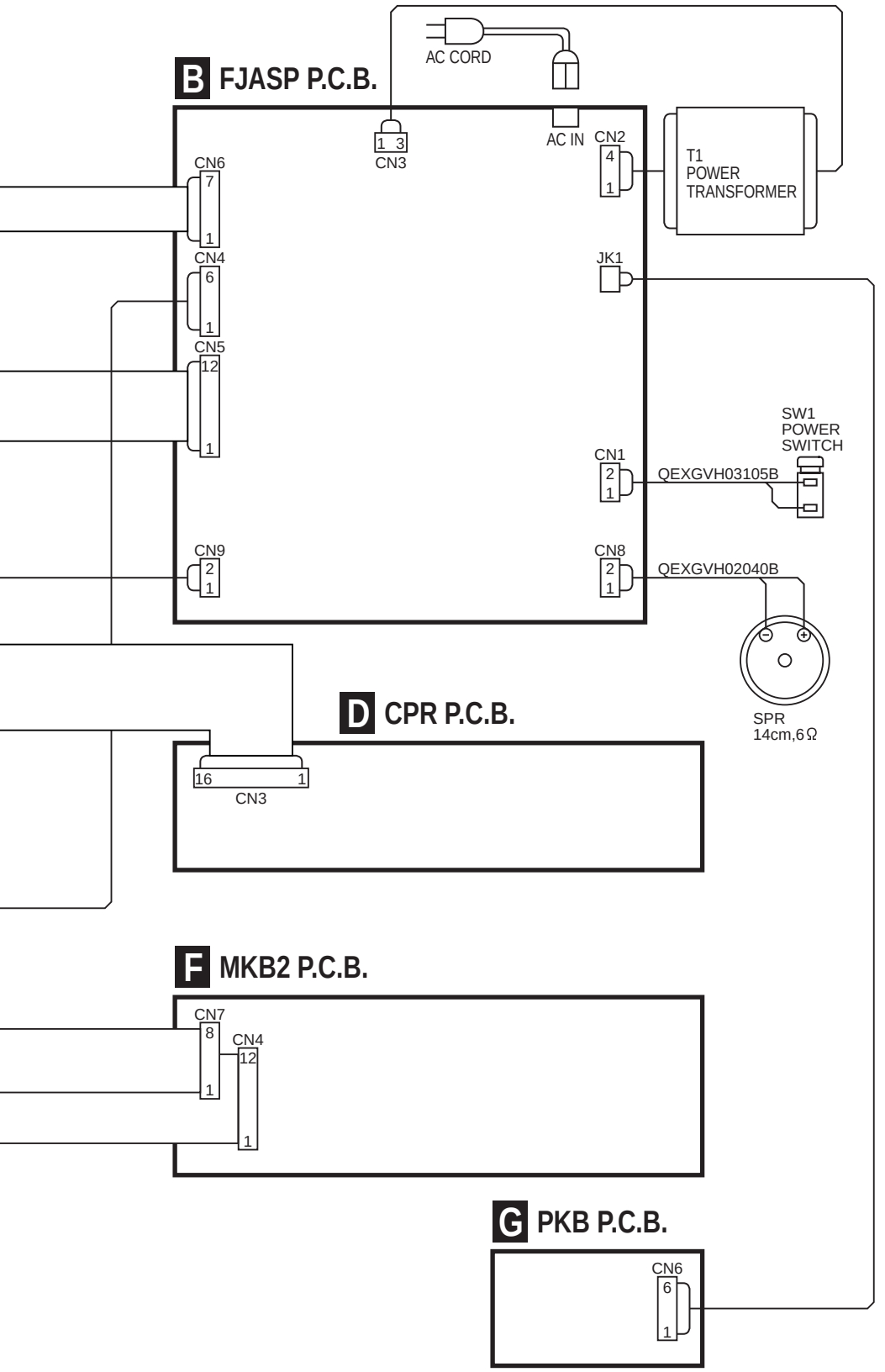
Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
I HP P.C.B.									
D1	A-4	L1	D-4	R3	B-4	C2	D-5	JK2	C-4
CN1	D-4	R1	B-4	R4	C-4	C3	D-5	W1	D-4
CN2	A-5	R2	C-4	C1	D-5	JK1	B-4		


H COM
SW1
MAC
PC1
PC2
MIDI
COMPUTER
JK1
CN1
E MKB1
CN8
IC1
DECODER
SWITCHES & DIODES
KF0 ~ KF3, KS0 ~ KS3
KDB0 ~ KDB4
CN9
CN2
F MKB2
CN4
IC2
DECODER
IC3
DECODER
CN7
SWITCHES & DIODES
CN8
CN4
IC3
RECEIVER
DRIVER
IC1
CRXD CTXD
MAC,PC1, PC2,MIDI
16BIT MICROCOMPUTER
MRXD MTXD
SOFT, SODU, SUST
A1 ~ A20
D0 ~ D15
IC10
SDOMIX
RXD,TXD,SCKIN,SCKOUT
KDB0 ~ KDB4
D0 ~ D15
KF0 ~ KF3, KS0 ~ KS3
D0 ~ D7
A1 ~ A4
D0 ~ D15
TONE GENERATOR LSI
A0 ~ A14
A0 ~ A19
DATA BUS
ADDRESS BUS
DATA BUS
IC6
D0 ~ D19
4M BIT PROGRAMMED ROM
A1 ~ A18
IC8
D8 ~ D15
256K BIT STATIC RAM
A1 ~ A15
IC9
D0 ~ D7
256K BIT STATIC RAM
A1 ~ A15
ADDRESS BUS


C CPL
SWITCHES & LEDS
IC2,3
BUFFER
Q2~6
LED DRIVE
IC1
SEG0~SEG11
CM0~CM5
SW0~SW7
8BIT MICROCOMPUTER
DATA,SCK
VR2
MAIN
VOLUME
CN1
CN2
CN3
CN4
D CPR
SWITCHES & LEDS
LED1
LED DISPLAY
CN2
CN3
A MAIN
Q6
+5A REGULATOR
+15V
+5A
D14
D12
+5B
D13
-15V
+VCC
+5D
Q7,8
+5D REGULATOR
+3.3V
Q9
+3.3V REGULATOR
CN3
CN2
IC21
D-A
CONVERTER
IC26A
IC26B
CN1
WD0A ~ WD15A
RD0A ~ RD7A
IC11
D0~D7
256K BIT
PSEUDO
STATIC
RAM
A0~A14
IC12
D0~D15
64M BIT
MASK RAM
A0~A19
RA0A ~ RA14A
WA0A ~ WA19A
CN6


B FJASP
+15V
IC1
+15V REGULATOR
+VCC
D7,8
CN3
T1 POWER TRANSFORMER
CN2
CN1
SW1 POWER SWITCH
-15V
IC2
-15V REGULATOR
-VCC
D5,6
JK9
AC CORD
+VCC
IC3B
IC5,6,9,10A
IC11B Q11,12,15,16
CN9
SP1 (Lch) 14cm; 4Ω
IC3A
IC7,8,9,10B
IC11A Q13,14,17,18
CN8
SP2 (Rch) 14cm; 4Ω
CN5
MIXING
EQUALIZING
POWER AMPLIFIER
I HP
CN4
CN1
CN2
POWER INDICATOR
+15V
IC4A Q7,8
JK1
1
HEADPHONE
IC4B Q9,10
JK2
2
HEADPHONE AMPLIFIER
JK7
L
LINE OUT
JK8
R
JK5
L
AUX IN
JK6
R
G PKB
CN1
JK1
PEDAL IN
SOFT
SOSUTENUTO
SUSTAIN
Q20
JK3
OUT
MIDI
CN6
IC12
PHOTO COUPLER
JK2
IN

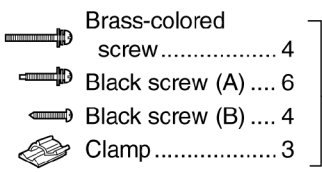

H COM P.C.B.
CN1
10
1
A MAIN P.C.B.
10 1
CN8
CN6
7
1
QEXGSS07010A
CN1
12
1
CN4
1 16
CN2
1 6
CN3
1 5
QEXGSS12010A
QEXGST160608
QEXGSS060308
QEXGSS05028
QEXGHVH02055C
SPL
14cm,6Ω
CORE
CORE
QEXGSS16022C
C CPL P.C.B.
6 1
CN4
5 1
CN1
16 1
CN2
CORE
E MKB1 P.C.B.
6 1
CN1
16
CN4
1
CN9
8
CN8
12
1
QEXGSS16022C
QEXGSS16022C
I HP P.C.B.

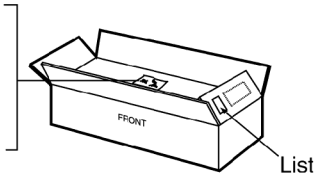

B FJASP P.C.B.
AC CORD
1 3
CN3
AC IN
CN2
4
1
T1
POWER
TRANSFORMER
CN6
7
1
CN4
6
1
CN5
12
1
JK1
SW1
POWER
SWITCH
CN1
2
1
QEXGVH03105B
CN9
2
1
CN8
2
1
QEXGVH02040B
SPR
14cm,6Ω
D CPR P.C.B.
16
1
CN3
F MKB2 P.C.B.
CN7
8
1
CN4
12
1
G PKB P.C.B.
CN6
6
1

Follow the steps below to assemble your Technics piano. Make sure you are using the correct parts and that they are in the correct direction.

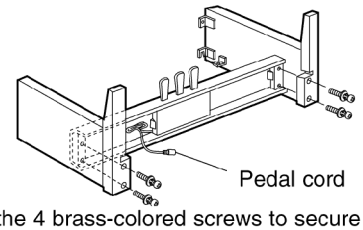
- At least 2 people are required for assembly.
- To disassemble the piano, reverse the procedure.

1. Remove the packing and take the parts out of the carton. Confirm that all the parts on the printed list are present.





2. Affix the right and left side planks to the pedal box.

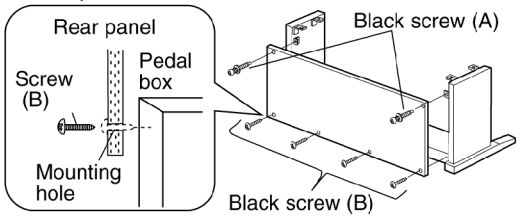


(1) Use the 4 brass-colored screws to secure the planks.
(2) Be sure to insert the screws straight.
- If a screw is inserted crookedly, it may be damaged.

(3) Insert each of the 4 screws partway, lightly securing each one little by little. After confirming that the screws are all correctly inserted, tighten each one securely.
- If each screw is tightened securely before all the screws are inserted, the last screw may be very difficult to insert.

(4) Loosen the pedal cord, stowed on the inner side of the pedal box, and extend it.

3. Affix the rear panel.



- **PX552M**: Affix the rear panel so that the wood grain suface is facing the front.

(1) Insert the 2 black screws (A) partway in the upper part of the rear panel, securing them only lightly. Do not tighten the screws completely at this time.
- If the screws are tightened securely at this time, it may be difficult to affix the lower part of the rear panel.

(2) Insert the 4 black screws (B) through the mounting holes in the lower part of the rear panel and tighten the screws fully.
- Run the screws directly into the pedal box as there are no rough holes in the pedal box.

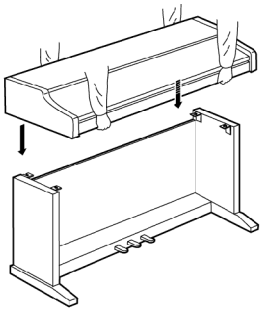
(3) Tighten the 2 black screws (A) in the upper part of the rear panel completely.

4. Place the piano body on the stand.

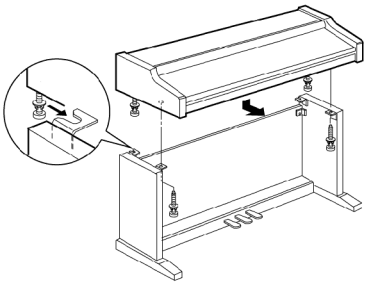
WARNING:
Avoid pinching your fingers.

Note 1
Holding the piano body at least 10 cm in from the edge, place it on the stand so that it does not fall off.

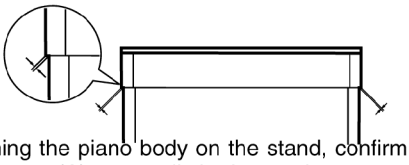
Note 2
If the piano body is placed too far to the right or left, or to the front or back, it will become unstable.



5. Secure the piano body to the stand.

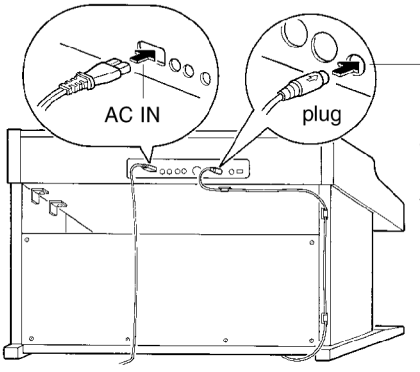


(1) Insert 2 black screws (A) in the 2 rear screw holes on the underside of the piano body, and turn each screw 5 or 6 times. Push the piano body forward so that the screws are fully inserted in the cutout of the metal piece on either side plank. (This enables you to easily position the piano body on the stand.)
(2) Adjust the piano body so that the right and left sides project evenly over the stand.



(3) Positioning the piano body on the stand, confirm that the 4 balck screws (A) can easily be inserted.
(4) Tighten the 4 screws securely.

6. Connect the pedal cord and power cord to the terminals.



(1) Plug the pedal cord and power cord into the terminals on the rear of the piano.
(2) Remove the backing from the clamps and affix them as shown in the figure. Secure the pedal cord to the clamps.

Confirm: After assembling, check these points.
- Are any parts left over?
  → Check the assembly procedure again.
- Does the piano rattle when it is rocked?
  → Make sure all the screws are securely tightened.
- Is the power cord firmly inserted?
  → Check again.
- Is the plug of the pedal cord inserted as far into the connector terminal as it will go?
  → If it is not completely inserted, the sustain and other pedal functions may not work.

■ When the piano has been moved or transported, retighten the screws securely.

SOUND

Press one of the **SOUND** buttons to select the desired sound.
Each sound features Touch Response, which increases the volume when the keyboard is played harder.

- The sounds can be mixed when two **SOUND** buttons are pressed simultaneously.
- On this piano, the maximum number of notes which can sound simultaneously is 32. (Lower range notes have priority over higher range notes.)

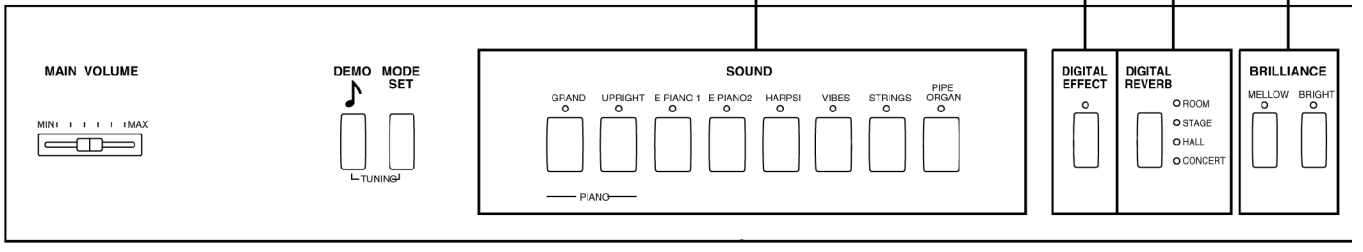
DIGITAL REVERB

DIGITAL REVERB applies a reverberation effect to the sound. Select from four echo typesÅ **ROOM**, **STAGE**, **HALL** and **CONCERT**.

- The type and depth of the **DIGITAL REVERB** can be set for each sound.

DIGITAL EFFECT

A celeste effect can be applied to give the sound greater depth.



Sostenuto pedal

The middle pedal is used as a sostenuto pedal. If the pedal is pressed while the keys are pressed, a sustain effect is applied to those notes only.

- For sustained-type sounds (**ORGAN**, **STRINGS**, the notes sound for as long as the pedal is depressed.

Soft pedal

The left pedal can be used as a soft pedal. When the pedal is depressed, the sound is softer.